

## DESCRIPTION

## MOUSE-DERIVED PROTEINS FORMING DOMAIN AND USE THEREOF

## Technical Field

The present invention relates to a mouse-derived protein forming a domain, a polynucleotide comprising the same, an antibody against the protein, and a method for screening an active compound using them.

## Background Art

Recently, genome nucleotide sequences of various model organisms, as represented by the human genome project, have been decoded one after another. "Structural genomics" is rapidly recognized as a new research area, and large-scale projects are progressing around the world. With respect to a large number of genes extracted from a mass of information about genomic sequences, structural genomics aims at systematic clarification of three-dimensional structure of a domain protein encoded by each gene and defining structure-function relationship.

In structural genomics, the number of proteins to be analyzed is considered to be 100,000 kinds, and it is not realistic to have a goal to determine the three-dimensional structures of all the proteins at present technical level.

Thus, it is first necessary to narrow down the number of target proteins to a reasonable number and select "representative structures". As a comprehensive three-dimensional structure analysis, projects having selected analysis targets from various viewpoints are initiated: for example, a) specifying relatively small sets of proteins as targets; b) specifying the kind of organisms having a small genome size such as hyperthermophilic archaebacterium, extreme thermophile, and mycoplasma;

c) specifying life phenomena, such as proteins as disease-associated gene products, and proteins involved in signal transduction or gene expression.

In the flow of this research, as the first step, it is one goal to determine one or more representative three-dimensional structure regarding all the families, the number of which is predicted to be about 10, 000 (classified as family when amino acid sequences have about 30 to 35% homology). When one representative three-dimensional structure (basic structure) is obtained, structures of other proteins belonging to the same family can be analogized by modeling based on homology. In the flow of this research, as the first step, it is one goal to determine one or more representative three-dimensional structure regarding all the domain families, the number of which is predicted to be about 10, 000 (classified as family when amino acid sequences have about 30 to 35% homology). When one representative three-dimensional structure (domain) is obtained, structures of other domains belonging to the same family can be analogized by modeling based on homology.

In this project, attention is drawn to the type of three-dimensional structure or the topology (basic structure: fold) of a functional domain, and research to clarify the correlation with a function for a basic structural unit of protein receives attention.

A protein having a plurality of domains is formed by combining functional domains as parts, and thus it is frequent that one domain appears in various proteins with the combination of different domains. Further, even if homology is not detected on a primary sequence, it is not unusual that proteins have the same domain. Therefore, the number of domains must be much smaller than the number of protein families, and it is expected that individual domains are associated with molecular functions. The number of the domains is predicted to be about 10,000 to 20,000, and if the analysis targets are within this number order it is sufficiently possible to determine the three-dimensional structures of all the target proteins.



Thus obtained information regarding the three-dimensional structure and functions of protein provides new findings for elucidation of vital functions, and makes a dramatic progress in developing drugs etc. (e.g. development by rational drug design or virtual screening). Therefore, such information is very useful in the industry.

In the meantime, a SEA domain is found in sea urchin sperm protein, enterokinase, agrin, and mucin (MUC1) serving as a lung cancer marker protein, and conceivably involved in facilitating or controlling binding of a sugar chain adjacent to a protein.

SEA is an extracellular domain involved in O-glycosylation (see, e.g., Bork P. and Patthy L. *Protein Science*, vol.4, pp.1421-1425, (1995)). Proteins having SEA have a common feature in that most of them are glycosylated. Furthermore, a protein well analyzed contains sugar chains bonded via an O-glycoside bond, such as heparan sulfate, which changes the molecular weight of the protein, significantly.

What is important herein is the following well-known fact applicable to various types of cancer cells, that is, the molecular weight of a sugar chain to be added to a protein increases specifically in a cancer cell. It has been reported that, expression of, for example, MUC1 having a SEA domain is augmented in lung cancer, brain tumor, and adenocarcinoma and a bulky sugar chain is observed (see, e.g., Croce Mv et. al., *Pathol. Oncol. Res.* Vol. 7(4) pp.284-291, (2001)). This protein has high adhesiveness due to the presence of a sugar chain and therefore, conceivably has a significant effect upon metastasis and malignant alteration of cancer. As an immunological therapy for cancer, a specific antigen to the protein has been used (see, e.g., Heukamp LC et. al., *J. Immunother* Vol.25 (1) pp. 45-56 (2002)).

However, the fact is that three-dimensional structure analysis of protein requires a lot of time, labor and cost. In structural genomic research aiming at

comprehensive and systematic structure analysis, it is an important challenge to attain high throughput structure analysis.

For the analysis of a three-dimensional structure of protein, NMR method and X-ray crystallography are mainly used. To analyze a three-dimensional structure of protein using NMR, it is preferable that a sample has a molecular weight of about 20,000 or less (about 200 or less amino acid residues). In the case of analysis of the three-dimensional structure by X-ray analysis, the properties of proteins are limited due to preparation of crystals. When a protein is randomly cleaved to obtain a protein suitable for structure analysis and a cleavage site exists in an amino acid sequence having a  $\beta$ -sheet or  $\alpha$ -helix structure, many proteins modify their physiologically significant structures, become a string-like shape not taking a structure, or aggregate. In this way, it is meaningless to analyze a three-dimensional structure of protein not having an original in vivo structure. Therefore, it is desirable to obtain a protein forming a significant domain for three dimensional analysis.

To express a protein having a domain suitable for structural analysis (hereinafter referred to as "a protein forming a domain"), information regarding the position of domain boundary is necessary. In general, such domain boundary is predicted using amino acid sequence homology or the like as a clue. Even if protein expression is conducted based on the amino acid sequence of the thus predicted domain region, there is very low probability that a protein forming a domain actually having a structure (folding) is obtained and thus domain expression is one of bottlenecks in structure analysis.

A protein forming a SEA-like domain of the present invention has not been obtained so far, and the structure information thereof is unknown. Thus, these cannot be used for the drug discovery.

## Disclosure of the Invention

In view of such circumstances, the present invention has been accomplished, and the present invention provides a protein described below, a production method thereof, a polynucleotide coding therefor, an antibody against the protein, and a screening method using them.

(1) A protein consisting of an amino acid sequence represented by SEQ ID NO: 1 or a salt thereof.

(2) A protein having an amino acid sequence derived from an amino acid sequence represented by SEQ ID NO: 2 by deletion of 0 to 10 amino acid residues from the N-terminal and deletion of 0 to 10 amino acid residues from the C-terminal and having 120 to 139 amino acid residues, or a salt thereof.

(3) A protein consisting of an amino acid sequence derived from an amino acid sequence of a protein represented by SEQ ID NO: 1 or 2 and having deletion substitution or addition of one or several amino acids and having a function substantially identical with the protein according to item (1) or (2), or a salt thereof.

(4) A polynucleotide containing a polynucleotide encoding the amino acid sequence of a protein according to any one of items (1) to (3).

(5) The polynucleotide according to item (4), containing a nucleotide sequence represented by SEQ ID NO: 3 or 4.

(6) An expression system containing a polynucleotide according to item (4) or (5).

(7) A recombinant vector containing a polynucleotide according to item (4) or (5).

(8) A transformant which is transformed with a polynucleotide according to item (4) or (5).

(9) An antibody against a protein according to any one of items (1) to (3) and/or a salt thereof.

(10) A pharmaceutical agent containing an antibody according to item (9).

(11) A method for producing a protein or a salt thereof according to any one of items (1) to (3), comprising a step of culturing a transformant of item (8) and producing the protein.

(12) A method for producing a protein or a salt thereof according to any one of items (1) to (3), characterized by using a cell-free protein synthesis system.

(13) A method for screening a substance interacting with a protein or a salt thereof according to any one of items (1) to (3) and/or a naturally existing protein or a salt thereof containing an amino acid sequence of a protein according to any one of items (1) to (3), comprising steps of bringing a candidate substance into contact with the protein or a salt thereof according to any one of items (1) to (3); and confirming whether the candidate substance interacts with the protein or a salt thereof.

(14) A method for assaying a protein or a salt thereof according to any one of items (1) to (3) using an antibody of item (9).

(15) A method for screening a substance interacting with a protein or a salt thereof according to any one of items (1) to (3) by using an assay method of item (14).

(16) A method for specifying a gene associated with a protein according to any one of items (1) to (3), comprising steps of expressing a protein according to any one of items (1) to (3) in a cell; and examining an expression status of the gene in the cell.

(17) A method for screening a compound interacting with a protein or a salt thereof according to any one of items (1) to (3) and/or a naturally existing protein or a salt thereof containing an amino acid sequence of a protein according to any one of items (1) to (3), comprising steps of determining an active site of the protein using information concerning a three-dimensional structure of the protein according to any

one of items (1) to (3); and searching a compound interacting with the active site on a computer.

(18) The screening method according to item (17), wherein the information concerning a three-dimensional structure of the protein is three-dimensional structure information of a protein comprising amino acid residues from amino acid 8 to amino acid 126 among three-dimensional structure information described in any one of three-dimensional structure coordinate tables 1 to 20.

(19) The screening method according to item (17), wherein, among three-dimensional structure information described in three-dimensional structure coordinate table 1, a part of information corresponding to amino acid residues of ASN15, ASN17, PHE18, THR19, LEU67, ARG70, SER71, VAL72, SER73, ASN74, HIS78, GLY80, ASP82, ASP119, SER122, ASP126, SER127 is used.

(20) A method for screening a substance interacting with a protein or a salt thereof according to any one of items (1) to (3) and/or a naturally existing protein or a salt thereof containing an amino acid sequence of a protein according to any one of items (1) to (3), comprising the steps of preparing specified compound interacting with the active site as a candidate substance by a screening method according to any one of claims 17 to 19, and bringing the candidate substance into contact with a protein or a salt thereof according to any one of claims 1 to 3; and confirming whether the candidate substance has interaction with the protein or a salt thereof.

(21) A method for presuming a three-dimensional structure of a protein with an unknown structure, wherein homology modeling is conducted on the protein with an unknown structure comprising an amino acid sequence having 30% or more homology with an amino acid sequence of a protein according to any one of items (1) to (3), by using information concerning three-dimensional structure information of a protein having amino acid residues from amino acid 8 to amino acid 126 among

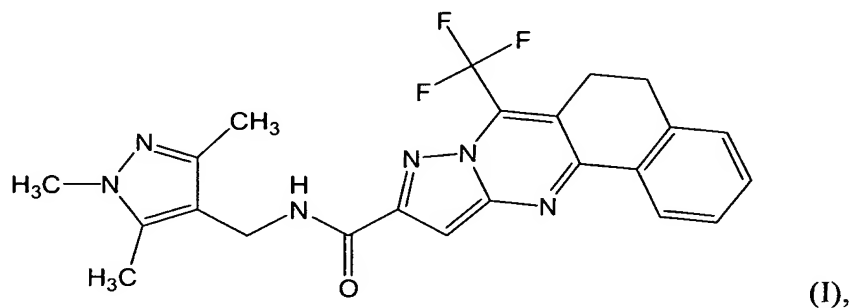
three-dimensional structures of a protein described in any one of three-dimensional structure coordinate tables 1 to 20.

(22) A compound inhibiting cellular proliferation activity, characterized in that the compound is obtained by a method according to any one of items (13), (15), and (17) to (20).

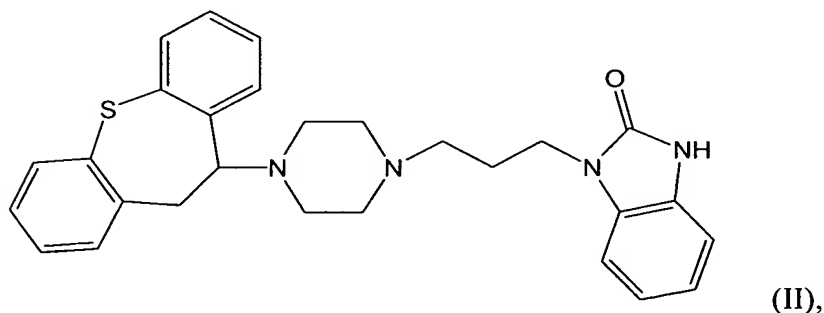
(23) A cellular proliferation activity inhibitor comprising, as an active ingredient, at least one compound selected from the group consisting of the following compounds i):

i) Compounds represented by items (a) to (e) or a salt thereof :

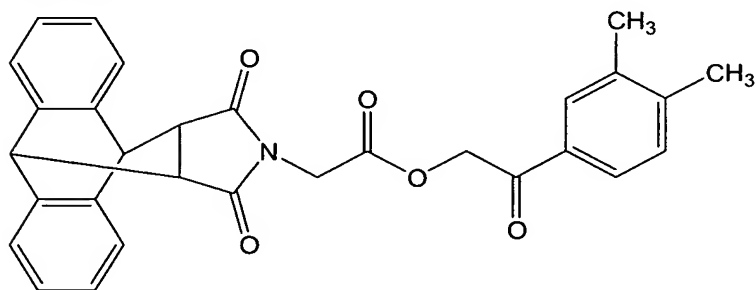
(a) N-(1,3,5-trimethyl-1H-pyrazol-4-ylmethyl)-7-trifluoromethyl-5,6-dihydro-7a,8,11-triazacyclopenta[b]phenanthrene-9-carboxamide represented by the following structural formula (I):



(b) 1-[3-[4-(10,11-dihydro-dibenzo[b,f]thiepin-10-yl) piperazin-1-yl]propyl]-1,3-dihydrobenzimidazol-2-one represented by the following structural formula (II):

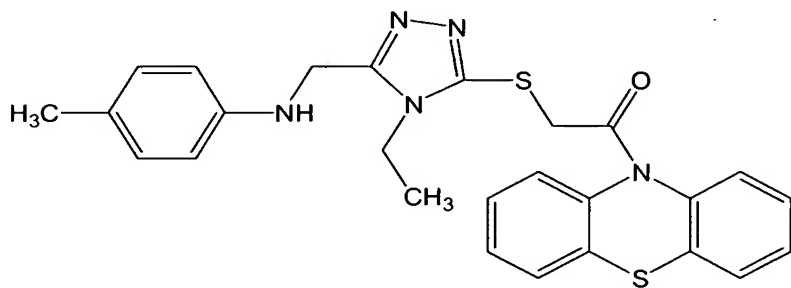


(c) 2-(3,4-dimethylphenyl)-2-oxoethyl-2-(3,5-dioxo-4-aza-dibenzo [8,9,10,11]tricyclo[5,2,2,0<sup>2,6</sup>]undecan-4-yl)acetate represented by the following structural formula (III):



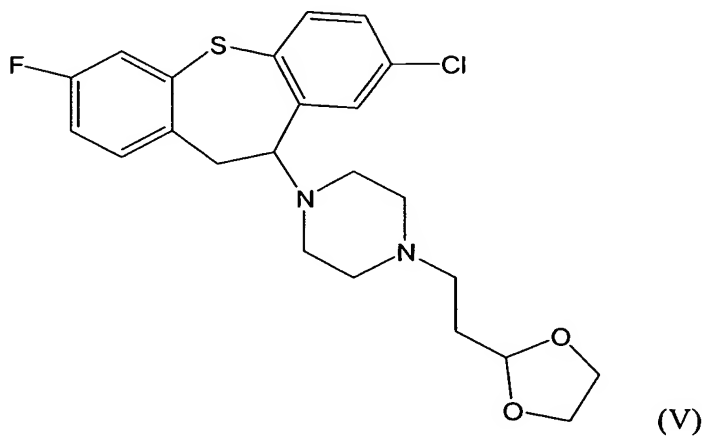
(III),

(d) 2-[4-ethyl-5-(4-methylphenylamino)methyl-4H-[1,2,4] triazol-3-yl]sulfanyl-1-(phenothiazin-10-yl)-1-ethanone represented by the following structural formula (IV):



(IV), or

(e) 1-(8-chloro-3-fluoro-10,11-dihydro-dibenzo[b,f] thiepin-10-yl)-4-[2-(1,3-dioxolan-2-yl)ethyl] piperazine represented by the following structural formula (V):



(V)

(24) The cellular proliferation activity inhibitor according to item (23) for inhibiting proliferation activity of a cancer cell derived from an ovarian cancer cell.

(25) A method for producing a pharmaceutical composition containing a compound of inhibiting a cellular proliferation activity, characterized in that the method comprises a step of blending a compound obtained by a method according to any one of items (13), (15), and (17) to (20) with a pharmaceutically acceptable carrier.

#### Brief Description of the Drawings

Figure 1 is a photograph showing expression of a protein by a SDS gel (attached in place of a drawing) in which reference symbol A indicates expression of a protein having an amino acid sequence from amino acid residue 133 to 251 of a SEA-like domain 1110008I14 protein derived from a mouse; and reference symbol B indicates expression of a protein having an amino acid sequence from amino acid residue 123 to amino acid residue 261, which are observed by SDS gel;

Figure 2 is a photograph of an SDS gel showing expression of a protein in Comparative Example (attached in place of a drawing) in which lanes of odd numbers indicate total amounts and lanes of even numbers indicate the supernatants thereof. The first and second lanes indicate the results of a polypeptide having amino acid residue 113 to 281 of a protein 1110008I14 derived from a mouse; the third and fourth lanes indicate the results of a polypeptide having amino acid residue 133 to 281; the fifth and sixth lanes indicate the results of a polypeptide having amino acid residue 143 to 251; the seventh and eighth lanes indicate the results of a polypeptide having amino acid residue 143 to 261; the ninth and tenth lanes indicate the results of a polypeptide having amino acid residue 143 to 271 of the same protein;



Figure 3 is a graph showing a one-dimensional magnetic resonance spectrum and  $^1\text{H}$ - $^{15}\text{N}$ HSQC spectrum of a protein having an amino acid sequence of amino acid residue 133 to 251 of 1110008I14 protein;

Figure 4 is a graph showing a one-dimensional magnetic resonance spectrum and  $^1\text{H}$ - $^{15}\text{N}$ HSQC spectrum of a protein having an amino acid sequence of amino acid residue 123 to 261 of 1110008I14 protein;

Figure 5 is a ribbon model (three dimensional structure) of a domain protein of the present invention; and

Figure 6 is a graph showing the measurement results of cellular proliferation.

#### Best Mode for Carrying Out the Invention

##### (Protein of the Invention)

A protein according to the present invention has a domain with a three-dimensional structure formed therein. More specifically, the present invention relates to a SEA-like domain protein represented by SEQ ID NO: 1 (an amino acid sequence from amino acid residue 133 to 251 of 1110008I14 protein). The 1110008I14 protein refers to one identified by DDBJ Accession No. AK003577.1 (see home page of RIKEN genomic sciences center: <http://genome.gsc.riken.go.jp/>, FANTOM DB clone ID. 1110008I14).

##### (SEA (Sea urchin sperm protein, Enterokinase, Agrin) domain)

A SEA domain is found in sea urchin sperm protein, enterokinase, agrin, and mucin (MUC1) serving as a marker protein for lung cancer, and conceivably involved in facilitating or controlling binding of a sugar chain adjacent to a protein, as described above.

SEA is an extracellular domain involved in O-glycosylation (see, e.g., Bork P. and Patthy L., Protein Science, vol.4, pp.1421-1425, (1995). Proteins having SEA have a common feature in that most of them are glycosylated. Furthermore, a

protein well analyzed contains sugar chains bonded via an O-glycoside bond, such as heparan sulfate, which changes the molecular weight of the protein, significantly.

What is important herein is the following well-known fact applicable to various types of cancer cells, that is, a sugar chain to be added to a protein is bulky and specific to a cancer cell. It has been reported that, expression of, for example, MUC1 having a SEA domain is augmented in lung cancer, brain tumor, and adenocarcinoma, and a bulky sugar chain is observed(see, e.g., Croce Mv et. al., *Pathol. Oncol. Res.* Vol. 7(4) pp.284-291, (2001)). This protein has high adhesiveness due to the presence of a sugar chain and therefore, conceivably has a significant effect upon metastasis and malignant alteration of cancer. As an immunological therapy for cancer, a specific antibody to the protein has been used (see, e.g., Heukamp LC et. al., *J. Immunother* Vol.25(1) pp. 45-56 (2002)).

The change of a sugar chain specifically observed in cancer is conceivably dependent upon the function of the SEA domain, which controls addition of a sugar chain. Therefore, if the three-dimensional structure of the SEA-like domain of the present invention is elucidated, it is possible to effectively design and develop a compound having an activity of inhibiting addition of a sugar chain based on the structural information thus analyzed, thereby developing a pharmaceutical agent inhibiting metastasis and malignant alteration of cancer.

Further, the present invention provides: a protein or a salt thereof comprising an amino acid sequence represented by SEQ ID NO:1, which further comprises by deletion, substitution or addition of one to several (1 to 9, preferably 1 to 5, more preferably 1 to 2) amino acids and which has a function substantially identical to that of the protein comprising the amino acid sequence represented by SEQ ID NO:1.

It should be noted that the expression "having a function substantially identical to that of the protein of the present invention" means to have a similar kind of molecular function or the like as that of the protein of the present invention.

Herein, examples of such molecular function include avidity to an interactive molecular and a sugar chain modification function.

(Sequence of protein)

The sequencing of the protein of the present invention is conducted as follows.

That is, i) presuming a domain region having a function of interest based on known protein sequence information; ii) preparing domain candidate sequence patterns having a basic pattern as the amino acid sequence of the thus presumed domain; iii) expressing a protein of each sequence pattern, evaluating structural stability of the obtained protein forming the domain, using a protein having a good result as a protein of interest.

Accordingly, the protein of the present invention is empirically selected so as to have a stable structure when a part (part that functions as a SEA-like domain) of the full length protein is fragmented and expressed as a protein forming a domain. There exist domain candidates in the order of 100 at the stage of domain region prediction, but the number of domain candidates is narrowed down due to various factors and in fact carefully selected in the order of 10 to several tens. Use of thus selected proteins in three-dimensional structure analysis enables highly accurate and reliable structure analysis, because of their three-dimensional structure stability.

(Presumption of domain region)

A method for presuming a domain region in the full length protein is not particularly limited, and any of the following methods can be used: for example, information science methods such as bioinformatics or computational science methods (see the specification of Japanese Patent Application No. 2001-309434), combination of deleted DNA library and GFP (see the specification of Japanese Patent Application No. 2001-062703), and experimental methods such as limited

breakdown (proteolysis) by protease. By using more accurate methods, the efficiency to select a domain of interest from domain candidates is improved.

(Production of domain candidate sequence pattern)

The above domain candidate sequence patterns are produced, for example, by extending or shortening the position of domain boundary to the N- or C- terminals on the basis of the above presumed domain region.

For example, prepared is a domain candidate sequence pattern having several new boundaries as the N-terminal, which are provided by extending, for example, one to tens of residues to the N-terminal or shortening, for example, one to tens of residues to the C-terminal, from the position of the amino acid residue in the domain boundary at the N-terminal of the presumed domain region. Note that the number of amino acid residues to be extended or shortened in the N-terminal direction and C-terminal direction is, for example, 1 to 200, preferably 1 to 100, and more preferably, 1 to 50.

Similarly, preferably produced in the same manner as the above N-terminal is a domain candidate sequence pattern having one or several kinds of domain boundaries as the C-terminal, which are selected in the domain boundary at the C-terminal of the presumed domain region.

(Extending and shortening of domain boundary)

As a method for extending or shortening a domain boundary of the above presumed domain region, employed is, for example, a method for synthesizing individual PCR primers capable of producing cDNAs corresponding to the above domain candidate sequence patterns and performing the creation by PCR. In particular, 2-step PCR method described in Japanese Patent Application No. 2001-201356 is suitable.

(Extraction of target domain information from domain candidate sequence pattern)

In order to select a target domain protein having actually stable three-dimensional structure from the above domain candidate sequence patterns, protein synthesis is performed using cDNA of domain candidate sequence pattern produced as mentioned above.

An expression system for the domain candidate sequence pattern is not particularly limited, and any of known expression systems are usable.

Next, it is determined whether the obtained protein actually has a stable three-dimensional structure, and when a protein confirmed to have such three-dimensional structure is used as a protein in the present invention.

Examples of indicators for the stability of three-dimensional structure of protein include: biochemical indicators such as an indicator whether a synthesized domain protein is detected as soluble protein by SDS gel electrophoresis, etc. and also detected as uniform band corresponding to a proper molecular weight; and spectroscopic methods having as an indicator fluorescence strength of GFP fused at the C-terminal side, NMR spectrum, and CD spectrum.

The conventional process of determining a protein sequence has problems in that, for example, (1) a target domain protein is not expressed in the above protein synthesis, or (2) though the protein is expressed, it causes aggregation or has low solubility, etc. The present inventors have overcome these problems and completed the present invention.

(Confirmation of having stable three-dimensional structure)

Regarding the above NMR spectrum, the determination for folding of a protein forming a domain is shown below.

When a protein forming a domain is not folded in 1D spectrum, signals derived from methyl group proton such as Val, Leu, and Ile are observed around 0.8 ppm. However, when a protein is folded, the environment of methyl group proton

is changed and signals are shifted to higher magnetic field side (around 0.7 ppm to -0.5 ppm).

The determination in  $^1\text{H}$ - $^{15}\text{N}$ HSQC spectrum can be made by visual evaluation of the cross peak convergence degree and the uniformity of signal strength. In other words, when cross peaks are densely gathered, the status is considered not forming a three-dimensional structure. Conversely, when dispersed, the status is considered forming a stable three-dimensional structure. In this way, the stability of three-dimensional structure is evaluated.

(Expression system)

A protein of the present invention can be produced from a common host cell, etc. including an expression system of the present invention by using a known method. Examples of the expression system include expression systems containing a polynucleotide of the present invention, host cells which contains such expression system and is produced by a known method, expression systems capable of producing a protein of the present invention by using a recombinant technology, and cell-free protein synthesis systems capable of producing a protein of the present invention.

(Vector)

A recombinant vector of the present invention can be obtained by ligating (inserting) a gene sequence of the present invention into a proper vector. The vector for inserting the gene sequence of the present invention therein is not particularly limited as long as it can be replicated in a host cell. Examples thereof include plasmid DNAs and phage DNAs.

Specific examples of the plasmid DNAs include *E. coli*-derived plasmids (e.g. pRSET, pBR322, pBR325, pUC118, pUC119, pUC18, and pUC19), *Bacillus subtilis*-derived plasmids (e.g. pUB110 and pTP5), yeast-derived plasmids (e.g. YEp13, YEp24, and YCp50). Specific examples of the phage DNAs include  $\lambda$

phage (Charon4A, Charon21A, EMBL3, EMBL4,  $\lambda$ gt10,  $\lambda$ gt11, and  $\lambda$ ZAP).

Further, animal viruses such as retrovirus and vaccinia virus and insect virus vectors such as baculovirus can be used.

To insert a gene of the present invention into a vector, a method is employed, which comprises first cleaving a purified DNA with a proper restriction enzyme and inserting the gene to a restriction enzyme site of a proper vector DNA or a multicloning site to ligate to the vector.

The gene of the present invention is incorporated into a vector so that the gene exhibits its function. Hence, in addition to a promoter and the gene of the present invention, an enhancer or the like including a cis-element, a splicing signal, a poly A addition signal, a selective marker, and a ribosome junction sequence (SD sequence) can be ligated into the vector of the present invention, if desired. Further, examples of the selective markers include a dihydrofolate reductase gene, an ampicillin resistance gene, and a neomycin resistance gene.

(Transformant)

A transformant of the present invention can be obtained by introducing the recombinant vector of the present invention into a host so that a gene of interest can be expressed. Herein, a host is not particularly limited, as long as it can express DNA of the present invention. Examples thereof include bacterium belonging to genus *Escherichia* such as *Escherichia coli*, genus *Bacillus* such as *Bacillus subtilis*, genus *Pseudomonas* such as *Pseudomonas putida*, genus *Rhizobium* such as *Rhizobium meliloti*. Further, yeasts such as *Saccharomyces cerevisiae* and *Schizosaccharomyces pombe*, and animal cells such as COS cells and CHO cells can be used. Or insect cells such as Sf9 and Sf21 can be used.

When a bacteria such as *E. coli* is a host, it is preferable that the recombinant vector of the present invention comprises a promoter, a ribosome junction sequence, a gene of the present invention, and a transcription termination sequence while

autonomously replicable in the bacteria. In addition, a gene to control the promoter may be contained.

Examples of *E. coli* include *E. coli* K12 and DH1 and examples of *Bacillus subtilis* include *Bacillus subtilis*. As a promoter, anyone can be used as long as it can be expressed in a host such as *E. coli*. Promoters derived from *E. coli* or phages such as trp promoter, lac promoter,  $\lambda P_L$  promoter, and  $\lambda P_R$  promoter can be used. Artificially designed and modified promoters such as tac promoter can be used. A method for introducing a recombinant vector into a bacteria is not particularly limited, as long as it is a method for introducing a DNA into bacteria. There are, for example, a method using calcium ion (Cohen, S.N. et al. (1972) Proc. Natl. Acad. Sci., USA 69, 2110-2114) and electroporation method.

When yeast is a host, *Saccharomyces cerevisiae*, *Schizosaccharomyces pombe*, and *Pichia pastoris*, for example, are used. In this case, a promoter is not particularly limited as long as it can be expressed in yeast. Examples thereof include gal1 promoter, gal10 promoter, a heat shock protein promoter, MF $\alpha$ 1 promoter, PHO5 promoter, PGK promoter, GAP promoter, ADH promoter, and AOX1 promoter. A method for introducing a recombinant vector into a yeast is not particularly limited as long as the method can introduce a DNA into a yeast. Examples of the methods include electroporation method (Becker, D.M. et al. (1990) Methods. Enzymol., 194,182-187), spheroplast method (Hinnen, A. et al. (1978) Proc. Natl. Acad. Sci., USA 75, 1929-1933), and lithium acetate method (Itoh, H. (1983) J. Bacteriol. 153,163-168).

When an animal cell is a host, a monkey cell COS-7, Vero, Chinese hamster ovary cell (CHO cell), a mouse L cell, a rat GH3, and a human FL cell can be used. As a promoter, SR $\alpha$  promoter, SV40 promoter, LTR promoter, and CMV promoter can be used, and further an early gene promoter of human cytomegalovirus may be used. Examples of the methods for introducing a recombinant vector into an animal



cell include electroporation method, calcium phosphate method, and lipofection method.

When an insect cell is a host, an Sf9 cell, an Sf21 cell or the like may be used. As a method for introducing a recombinant vector into an insect cell, calcium phosphate method, lipofection method, and electroporation method may be used, for example.

#### (Antibody)

Using the protein of the present invention as an antigen, an antibody against the antigen can be prepared.

[Production of a polyclonal antibody against the protein of the present invention]

An animal is immunized using the aforementioned antigen. In the case of a rabbit, a dose per animal of an antigen is 100 to 500  $\mu\text{g}$  using, for example, an adjuvant. As the adjuvant, Freund's complete adjuvant (FCA), Freund's incomplete adjuvant (FIA), aluminum hydroxide adjuvant, etc. are used.

Immunization is carried out by administration to mammals (e.g. non-human mammals such as a rat, a mouse, and a rabbit). Administration is conducted intravenously, hypodermically, or intraperitoneally. In addition, immunization interval is not particularly limited, and it may be several-day to several-week interval, preferably 2- to 3-week interval. At such interval, an animal is immunized preferably 1 to 10 times, more preferably 2 to 3 times. After 6 to 60 days from final immunization, antibody titer is measured. On a day when the greatest antibody titer is exhibited, blood is collected to obtain antiserum. The antibody titer is measured by ELISA (enzyme-linked immunosorbent assay), RIA (radioimmuno assay), or the like.

When purification of an antibody is needed from antiserum, the purification can be conducted by properly selecting a well-known method such as ammonium

sulfate precipitation method, ion exchange chromatography, gel filtration, and affinity chromatography, or combination thereof.

[Production of a monoclonal antibody against the protein]

An animal is immunized using the aforementioned antigen. If necessary, an adjuvant (commercially available Freund's complete adjuvant, Freund's incomplete adjuvant, etc.) may be mixed in the same manner as above to perform immunization effectively.

Immunization is carried out by administration to mammals of a human or a non-human (e.g. a rat, a mouse, and a rabbit). A dose per mouse of an antigen is 50 µg. Administration is conducted mainly intravenously, hypodermically, or intraperitoneally. Further, immunization interval is not particularly limited, and it may be several-day to several-week interval, preferably 2- to 3-week interval, and immunization is performed preferably one to ten times, more preferably two to three times. Then, antibody-producing cells are collected after final immunization. As an antibody-producing cell, there are a spleen cell, a lymph node cell, a peripheral blood cell, or the like, but a spleen cell is preferable.

[Cell fusion]

To obtain a hybridoma, cell fusion of an antibody producing cell and a myeloma cell is performed. As a myeloma cell to be fused with an antibody producing cell, an established cell line can be used, which is generally available and derived from an animal such as a mouse. Preferably used is a cell line which has drug selectivity, and has properties whereby it is unable to survive in HAT selective medium (containing hypoxanthine, aminopterin, and thymidine) without the fusion but able to survive only with the fusion with an antibody producing cell. Specific examples of myeloma cells include mouse myeloma cell lines such as P3X63-Ag.8.U1(P3U1), P3/NSI/1-Ag4-1, and Sp2/0-Ag14.

Next, cell fusion of the above myeloma cell with an antibody producing cell is performed. In an animal cell culture medium such as DMEM and RPMI-1640 medium without inclusion of serum, antibody producing cells and myeloma cells are mixed in the ratio of 15:1 to 25:1. Fusion reaction is performed in the presence of a cell fusion accelerator such as polyethylene glycol, or by electric pulse treatment (e.g. electroporation).

[Selection and cloning of hybridoma]

From cells treated by cell fusion, a hybridoma of interest is selected. For example, the treated cells are cultured in a medium containing hypoxanthine, aminopterin and thymidine, and growing cells are obtained as a hybridoma.

Next, screening is performed to determine whether an antibody of interest exists in a culture supernatant of increased hybridoma. The screening of hybridoma may be performed, without particular limitation, in a conventional manner. For example, a part of culture supernatant grown as hybridoma in a well is collected, and screened by ELISA (enzyme-linked immunosorbent assay), RIA (radioimmuno assay) or the like. Cloning of fused cells is performed preferably by limiting dilution method or the like, and finally a hybridoma of a monoclonal antibody producing cell is established.

[Collection of monoclonal antibody]

As a method for collecting monoclonal antibodies from established hybridoma, a conventional cell culture method or the like may be employed. In the cell culture method, preferably the hybridoma is cultured for 3 to 10 days under ordinary culture conditions (e.g. 37°C, 5% CO<sub>2</sub> concentration) in an animal cell culture medium such as RPMI-1640 or MEM media containing 10% bovine fetus serum, and antibodies are collected from resultant culture supernatant.

In the above antibody collection method, antibodies can be purified, if necessary, by properly selecting a well-known method such as ammonium sulfate

precipitation method, ion exchange chromatography, affinity chromatography, and gel chromatography, or combination thereof.

(Production of the protein of the present invention)

The protein of the present invention can be obtained by culturing a transformant and collecting the protein from the culture. The term "culture" means, in addition to a culture supernatant, any of a cultured cell, a cultured fungus body, and a matter of crushed cell or fungus body. "A method for culturing a transformant of the present invention" is performed according to a conventional method used for culturing a host.

As a culture medium for culturing the transformant obtained by using microorganisms such as *E. coli* and yeast as a host, any of natural medium and synthetic medium may be used as long as it contains carbon source, nitrogen source, mineral, etc. which can be utilized as resource by the microorganisms and it effectively cultures the transformant. As the carbon source, used are carbohydrates such as glucose, fructose, sucrose and starch, organic acids such as acetic acid and propionic acid, and alcohols such as ethanol and propanol. As the nitrogen source, used are ammonium salts of inorganic or organic acids such as ammonia, ammonium chloride, ammonium sulfate, ammonium acetate, and ammonium phosphate, or other nitrogen-containing compounds as well as peptone, meat extract, and corn steep liquor. As inorganic matters, monopotassium phosphate, dipotassium phosphate, magnesium phosphate, magnesium sulfate, sodium chloride, ferrous sulfate, manganese sulfate, copper sulfate, and calcium carbonate may be used.

Culture is carried out preferably at 37°C under aerobic conditions such as shaking culture or aerobic culture with stirring for 6 to 24 hours. During the culture period, pH is kept at 7.0 to 7.5. The pH is adjusted preferably by using inorganic or organic acid, alkali solution, etc. During the culture, antibiotics such as ampicillin and tetracycline may be added to the culture medium if necessary.

When a microorganism is cultured which has transformed with an expression vector having used an inducible promoter as a promoter, an inducer may be added to the medium if necessary. For example, when a microorganism transformed with an expression vector having used lac promoter is cultured, isopropyl- $\beta$ -D-thiogalactopyranoside (IPTG), etc. may be added to the medium. When a microorganism transformed with an expression vector having used trp promoter is cultured, indole acrylic acid (IAA) may be added to the medium.

As a medium for culturing a transformant obtained by using an animal cell as a host, RPMI1640 or DMEM media, which are commonly used, or these media having bovine fetus serum added thereto may be used. Culture is carried out at 37°C for 1 to 30 days in the presence of 5% CO<sub>2</sub>. During the culture period, antibiotics such as kanamycin, penicillin etc. may be added to the medium.

After the culture, protein is extracted preferably by crushing a fungus body or a cell when the protein is produced in a fungus body or a cell. Further, the protein of the present invention is produced outside a fungus body or a cell, the culture medium is used as it is or preferably the fungus body or cell is removed by centrifugation, etc. Thereafter, the protein of the present invention can be isolated and purified from the above culture medium by using either alone or proper combination of biochemical methods commonly used for isolation and purification of protein, such as ammonium sulfate precipitate, gel chromatography, ion exchange chromatography, affinity chromatography, etc. During or after this purification process, the tag sequence, which was used for purification by protease treatment can be removed.

(Method for producing a domain protein using a cell-free protein synthesis system)

Using a cell-free protein synthesis system, the present invention provides a method for producing: a protein comprising an amino acid sequence represented by SEQ ID NO:1; and a protein comprising an amino acid sequence derived from the

amino acid sequence represented by SEQ ID NO:2 by deletion of 0 to 10 amino acid residues from the N-terminal and deletion of 0 to 10 amino acid residues from the C-terminal and having 120 to 139 amino acid residues.

A cell-free protein synthesis system is a system in which proteins are synthesized in vitro by using a cell extract. "A cell-free protein synthesis system" includes both a cell-free translation system for synthesizing proteins on ribosome through reading of information of mRNA, and a system including both a cell-free transcription system for synthesizing RNA using DNA as the template and a cell-free translation system. Since a cell-free protein synthesis system can modify a system easily, it has an advantage to easily construct an expression system suitable for a target protein. Further, a cell-free protein synthesis system is described in detail in Japanese Patent Publication No. 2000-175695.

[Cell extract]

A crude cell extract may be an extract from eukaryotic or prokaryotic cell in a state of high protein synthesis activity such as bacteria (e.g. *E. coli*), fungi (e.g. budding yeast), wheat germ, rabbit reticulocyte, murine L-cell, Ehrlich ascetic cancer cell, HeLa cell, and CHO cell (Clemens, M.J., Transcription and translation- a practical approach, (1984), pp. 231-270, Henes, B.D. and Higgins, S.J. eds., IRL Press, Oxford).

A crude cell extract preferably contains a component required for protein synthesis such as ribosome and tRNA. For preparation of a crude extract, a method described, for example, in Pratt, J.M. et al., transcription and translation - a practical approach, (1984), pp. 179-209, Henes, B.D. and Higgins, S.J. eds., IRL Press, Oxford, can be used. More specifically, the preparation can be conducted by crushing with a French press (Pratt, mentioned above) or crushing with glass beads. A preferable cell extract is *E. coli* S30 cell extract. S30 extract can be prepared from *E. coli* BL21 Codon Plus strain in accordance with generally known methods

such as a method of Pratt et al. (above mentioned), or S30 extract commercially available from Promega or Novagen can be used. The cell extract derived mainly from *E. coli*, wheat germ, and rabbit reticulocyte.

(Dialyzer)

A dialyzer which enables shaking or agitating while having internal and external dialysates isolated from each other via a dialysis membrane. Examples of a small-scale reaction apparatus include Dispo Dialyzer (registered trademark) (manufactured by Spectrum) and Slidealyzer (registered trademark) (manufactured by Pierce).

Further, examples of a large-scale reaction apparatus include Spectra/Por (registered trademark) dialysis tube (manufactured by Spectrum).

(Internal dialysate)

In addition to a concentrated cell extract such as *E. coli* S30, an internal dialysate of a cell-free protein synthesis system may contain DNA or RNA (mRNA and the like) encoding the target proteins, ATP (adenosine 5'-triphosphate), GTP (guanosine 5'-triphosphate), CTP (cytidine 5'-triphosphate), UTP (uridine 5'-triphosphate), buffer solutions, salts, amino acids, RNase inhibitors, antibacterial agents, RNA polymerase if necessary (in a case where DNA is used as template), and tRNA.

In addition, it can contain ATP regenerating systems such as combinations of phosphoenolpyruvate and pyruvate kinase, or creatine phosphate and creatine kinase, polyethyleneglycol (for example, PEG#8000), 3',5'-cAMP, folic acids, RNase inhibitors, and reducing agents (for example, dithiothreitol). On the other hand, an external dialysate (that is, protein synthesis substrate solution) can use the same composition of the internal dialysate excluding cell extract, RNase inhibitors, DNA or RNA, and RNA polymerase. For example, it may contain buffer solutions, ATP,

GTP, CTP, UTP, salts, amino acids, and antibacterial agents. The concentration of added components can be determined arbitrarily.

[Buffer solution]

As the buffer solution, buffer agent such as Hepes-KOH and Tris-OAc can be used, for example. Examples of the salts include acetates (for example, ammonium salts, magnesium salts, and the like) and glutamate salts. Examples of the antibacterial agents include sodium azide and ampicillin. Examples of the amino acids include 20 kinds of amino acids that construct proteins. In a case where DNA is used as a template, RNA polymerase is added to the reaction system, and a commercially available enzyme such as T7 RNA polymerase can be used.

The internal dialysate is put inside the dialysis membrane, and the external dialysate is put outside the membrane. By shaking or stirring of the closed system in which substances can transfer through the membrane in dependence on the cutoff molecular weight, a target protein thus produced can be collected from the internal or external dialysates. For the reaction conditions such as temperature, stirring rate, and so forth, any condition can be applied depending on the kind of proteins. In the case of protein synthesis, the temperature to be applied is usually approximately 25 to 50°C, preferably 37°C. However, the temperature for cell-free protein synthesis system using a fungus extract derived from *Thermus thermophilus* may exceed 50°C.

Further, the shaking rate or stirring rate may be low, and, for example, 100 to 200 rpm can be applied. While observing the production of the target protein, the reaction period can be properly determined.

In the cell-free protein synthesis system, it is desirable to exchange the external dialysate for a fresh external dialysate when the reaction rate is reduced. Moreover, the use of a dialysis membrane with a cutoff molecular weight of more than 10,000 Da, preferably more than approximately 50,000 Da, enables higher output of the proteins.



(Purification of protein)

Since the quantity and the number of kinds of mixed contaminants are extremely small, compared with the isolation from living cells, purification of the produced proteins can be achieved with relative ease. Depending on the properties of the proteins, conventionally known purification methods can be used either alone or, if necessary, in combination. Common techniques can be used, such as ammonium sulfate or acetone precipitation, acid extraction, anion or cation exchange chromatography, hydrophobic interaction chromatography, affinity chromatography, gel filtration chromatography, HPLC, electrophoresis, and chromatofocusing. During or after this purification process, a tag sequence used for purification can be removed by protease treatment. Identification and quantitative determination of the produced proteins can be achieved by activity assay, immunological assay, spectroscopic measurement, amino acid analysis, and the like, and, if necessary, comparing with a standard sample.

(Screening method)

As a screening method of the present invention, there is a method for screening a compound having interaction with a protein of the present invention, which comprises a process of bringing a candidate substance into contact with the protein or a salt thereof, and a process of confirming whether the protein interacts with the candidate substance. Here, the expression "having interaction" means to inhibit or strengthen molecular function and/or physiological activity of the protein by combining the compound with the protein. In this screening method, the protein is brought into contact with the candidate substance, and it is determined whether molecular function and/or physiological activity of the protein is changed.

[Searching for an interactive substance using NMR]

When NMR is used to search for an interactive substance, the presence of interaction can be determined based on the existence of signal changes of the protein

before and after addition of the candidate substance. In other words, when an interactive substance candidate interacts with the protein, it is expected that a chemical shift value, a line width, the number, etc. of NMR signals derived from the vicinity of interactive substance interactive site of the protein may be changed, and thus the presence of interaction can be determined by detecting such changes.

In particular,  $^{15}\text{N}$ -labeled protein is prepared with relative ease, and  $^1\text{H}$ - $^{15}\text{N}$ -HSQC spectrum obtained therefrom has relatively high resolution and sensitivity. Further, the spectrum is less affected by NMR signals derived from added interactive substance, and thus it is very useful.

(Assay method)

The protein of the present invention can be assayed by using, for example, an antibody of the present invention. Examples of a method for assaying a protein using an antibody include sandwich immunoassay, competitive method, immunometric method, and nephelometry method. Further, it is also detectable using labels such as radioisotope, an enzyme, and a fluorescent material.

(Screening method using assay method)

The antibody of the present invention is specifically combined with the protein of the present invention, and thus it can be used for screening a compound having interaction with the protein of the present invention. As a screening method therefor, known screening methods are usable.

In addition, according to the assay method of the protein of the present invention using the antibody of the present invention, diseases involving the protein of the present invention can be prevented and diagnosed.

(Three-dimensional structure analysis)

The three-dimensional structure of the protein can be analyzed by NMR structure analysis, X-ray structure analysis, etc.

(NMR)

A sample used for NMR is not particularly limited, but a sample in which  $^{12}\text{C}$  or  $^{14}\text{N}$  in the protein is labeled with a stable isotope,  $^{13}\text{C}$  or  $^{15}\text{N}$  nuclear is used preferably (multi-nuclear and multi-dimensional NMR measurement).

Stable-isotope labeling of a protein is a common technique, and is described in Clore, G.M. & Gronenborn, A.M., Science, 252, p.1390-1399, 1991, or the like. In particular, analysis using a protein sample having a main chain labeled with  $^{15}\text{N}$  uniform stable isotope is easily and preferably carried out. In addition, a protein having the skeleton of the main chain labeled with at least two or more kinds of isotopes of  $^{13}\text{C}$ ,  $^{15}\text{N}$ , and  $^2\text{H}$  may be used (National Publication of International Patent Application No. 2001-514239).

As NMR measurement, it is preferable to measure  $^{15}\text{N}$ - $^1\text{H}$  spin coupling constant by observing IPAP-HSQC spectrum, etc. The term "IPAP-HSQC spectrum" is a measurement method for reading  $^{15}\text{N}$ - $^1\text{H}$  spin coupling constant effectively by simultaneously observing two HSQC spectra of level and reverse phases, and adding both spectra thereby to prevent overlapping of the signals.

Chemical shift attribution is performed by two or more kinds of NMR methods. For example, 2D, DOQ-COSY, TOCSY, NOESY, and HSQC are well known as two dimensional NMR, and HNCO, HCACO, HNCA, HCA(CO)N, HN(CO)CA, HNHB, CBCANH, H(CA)NH, HBHA(CO)NH, HCCH-COSY, HCANH, HCCH-TOCSY, HCACON,  $^{15}\text{N}$ -NOESY-HSQC,  $^{13}\text{C}$ -NOESY-HSQC are well known as multi dimensional NMR. A general technique of NMR is known, and described in, for example, "NMR of Protein" (Yoji Arata, Kyoritsu Shuppan, Co., Ltd., 1996); "Basic Biochemical Experiment Method Vol. 3, Protein I, Detection and Structure Analysis Method edited by Japan Biochemical Society" Chapter 18, Three-dimensional structure analysis by NMR (Tokyo Kagaku Dozin, Co., Ltd., Feb. 2001); Takashi Ito et al., Journal Vol. 21 of Japan Agrochemical Society, pp.

450-459, 1996; and Toshiyuki Tanaka, Chemistry and Industry Vol. 49, No. 2, pp. 155-158, 1996.

When NMR is used for three-dimensional structure analysis, it is a common method that the distance between protons is estimated in accordance with the scale of nuclear Overhauser effect between individual protons of the protein, and based on the distance information, the three-dimensional structure is determined. It is possible to obtain a three-dimensional structure with precision by adding information concerning a chemical shift value, a scalar coupling value, a residual dipolar coupling value, hydrogen bond or the like.

Any known program for structure analysis from NMR data is usable. Examples for chemical shift attribution include NMR Pipe, PIPP, Capp, Felix, NMR View, and XEASY. Examples as three dimensional calculation softwares include X-PLOR, CNS, DYANA, and DYNAMO.

(X-ray crystallography)

When X-ray crystallography is used for three-dimensional structure analysis, an electron density map is calculated based on an X-ray diffraction image of crystallized protein, and the three-dimensional structure is determined. In other words, the protein is crystallized and mono-colored X-ray is applied to the crystal, and based on the obtained X-ray diffraction image, the three-dimensional structure of the protein is clarified (Blundell, T.L. and Johnson, L.N., PROTEIN CRYSTALLOGRAPHY, pp. 1-565, (1976) Academic Press, New York).

(Screening method based on three-dimensional structure information)

Next, the present invention provides, using information concerning three-dimensional structure of the aforementioned protein, a method for screening a compound having interaction with the protein or a salt thereof, which comprises a process of determining an active site of the protein, and a process of searching for the compound having interaction with the active site on a computer.

(in silico screening)

Regarding drug design based on three-dimensional structure of a molecule, there are many reviews including Drug Development, Vol. 7 "Molecular Design" (Hirokawa Shoten). Specifically, screening is first conducted by a computer on the library (e.g. about 150,000 kinds) of low molecular compounds (1000 or less molecular weight) stored in a relational database such as Oracle by use of a flexible ligand binding simulation software such as FlexiDock and FlexX. The three-dimensional structure of a chemical compound of this library is designated by a program such as CONCORD, and it is possible to select a substance that can be inserted into an active site. Among the selected substances, a compound that is fit into the active site more precisely is visually selected by using a simulation program such as Insight II or MOE.

As computer softwares used in a series of the above processes, any commercially available one, such as FlexiDock, Tripos Inc.FlexX, Tripos Inc.CONCORD, Tripos Inc.Oracle, Oracle Corp.Insight II, Molecular Simulations Inc.MOE, Chemical Computing Group Inc. can be used.

Another method is to design candidate compounds including unknown substances by a computer. As such method, the following methods are known: a method for searching for a compatible compound by aligning a chemical group such as methyl and ethyl in an active site; and a method of aligning an atom in an active site by a computer program.

(Wet screening)

To select a major candidate compound having interaction with the protein of the present invention, the candidate compound obtained by in silico screening is brought into contact with the protein of the present invention and the molecular function or physiological activity of the protein of the invention is determined. Further, based on the three-dimensional structure data of the candidate compound

and the protein of the invention, the candidate compound is modified so as to have more desirable structure.

The selected compound is synthesized and actually interacted with the protein for screening. With respect to a compound that has changed the activity of the protein, further testing relating to in vitro activity, in vivo dynamics, or toxicity is performed by animal tests.

(Drug containing an interactive substance)

A substance interacting with the protein of the invention can be used as a preventive and/or therapeutic agent to diseases involving the protein. Such drug can be orally or parentally administered to the whole body or locally.

When the drug of the invention is orally administered, it may be prepared in any type of formulation such as a tablet, a capsule, a granule, powder, a pill, trochiscus, internal use liquor, a suspension, an emulsion, and syrup, and may be prepared as a dried product which is dissolved again at administration. Further, when the drug of the invention is parenterally administered, a formulation such as an intravenous injection (including intravenous drip), intramuscular injection, intraperitoneal injection, subcutaneous injection, and suppositories may be selected. In the case of formulations for injection, the drug may be provided in the form of an ampule with a unit dose or a container for large volume administration.

These formulations can be produced by conventional methods by properly selecting an excipient, an extender, a binder, a wetting agent, a disintegrator, a lubricant, a surfactant, a dispersant, a buffer, a preservative, a solubilizing agent, an antiseptic, a corrective, an analgesic agent, a stabilizing agent, and an isotonic agent, which are commonly used for formulation.

The above various formulations may contain a pharmaceutically acceptable carrier or additive. Examples of these carriers and additives include water, pharmaceutically acceptable organic solvents, collagen, polyvinyl alcohol, polyvinyl

pyrrolidone, carboxyvinyl polymer, sodium alginate, water-soluble dextran, carboxymethyl starch sodium, pectin, xanthan gum, gum Arabic, casein, gelatin, agar, glycerol, propylene glycol, polyethylene glycol, Vaseline, paraffin, stearyl alcohol, stearic acid, a human serum albumin, mannitol, sorbitol, and lactose. Additives to be used are selected from the above-mentioned property or in combination according to the type of formulation of the invention.

A dose of the drug of the invention can be varied depending on the age of a recipient, administration path, and the number of administration times, and thus it can be changed in a wide range. In this case, the effective dose of the protein of the invention and the effective dose to be administered in combination with suitable diluent and pharmacologically usable carrier are selected in the range of 0.01 mg to 1,000 mg per 1 kg of the body weight for one time, and the administration is conducted preferably once to several times per day for one day or more.

#### (Description of Sequences)

The sequence numbers of the description indicate the following sequences.

[Sequence listing free text]

[SEQ ID NO: 1] represents an amino acid sequence of amino acid residue 133 to 251 of 1110008I14 protein derived from a mouse.

[SEQ ID NO: 2] represents an amino acid sequence of amino acid residue 123 to 261 of 1110008I14 protein derived from a mouse.

[SEQ ID NO: 3] represents a cDNA sequence encoding the protein represented by SEQ ID NO: 1.

[SEQ ID NO: 4] represents a cDNA sequence encoding the protein represented by SEQ ID NO: 2.

[SEQ ID NO: 5] represents an amino acid sequence represented by SEQ ID NO: 1 plus an amino acid sequence of linkers added to the N-terminal and C-terminal thereof.

[SEQ ID NO: 6] represents the nucleotide sequence of 5' primer 1 used in the primary PCR employed in an expression vector construction process in synthesizing a protein having an amino acid sequence represented by SEQ ID NO: 1.

[SEQ ID NO: 7] represents the nucleotide sequence of 5' primer 1 used in the primary PCR employed in an expression vector construction process in synthesizing a protein having an amino acid sequence represented by SEQ ID NO: 2.

[SEQ ID NO: 8] represents the nucleotide sequence of 3' primer 1 used in the primary PCR employed in synthesizing a protein having an amino acid sequence represented by SEQ ID NO: 1.

[SEQ ID NO: 9] represents the nucleotide sequence of 3' primer 1 used in the primary PCR employed in synthesizing a protein having an amino acid sequence represented by SEQ ID NO: 2.

[SEQ ID NO: 10] represents the nucleotide sequence of 5' primer 2 used in the secondary PCR employed in the expression vector construction process above.

[SEQ ID NO: 11] represents the nucleotide sequence of 3' primer 2 used in the secondary PCR.

[SEQ ID NO: 12] represents a nucleotide sequence of universal primer U2 used in the secondary PCR.

#### [Examples]

The present invention will be described in detail by showing Examples below, but the scope of the present invention is not limited by them.

#### I) Presumption of domain

The presumption of a domain was conducted in the following manner.

First, when a region having homology with a sequence contained in protein database SCOP (Version 1.55) was detected from query sequences, such region was predicted as a domain. BLASTP was used as homology detection method, and it



was determined to be homologous when E-value had 0.1 or less hits. <SCOP method>

Next, when a region having homology with a sequence profile contained in protein motif database PFAM (version 6.5) was detected from query sequences, such region was predicted as a domain. HMMER was used as homology detection method, and it was determined to be homologous when E-value had 0.1 or less hits. <PFAM method>

When a region having homology with any of consensus sequences contained in protein motif database ProDom (a version obtained through the Web January, 2001) was detected from query sequences, such region was predicted as a domain. BLASTP was used as homology detection method, and it was determined to be homologous when E-value had 0.1 or less hits. <ProDom method>

Further, homology search on query sequences was conducted by BLASTP in protein sequence data set (NCBI-nr), and when E-value had 0.1 or less hits, such homologous regions were grouped and predicted as domain. <NR method>

Moreover, homology search on query sequences was conducted by BLASTP in protein sequence data set (NCBI-nr), and the frequency of detecting homology was calculated. Peaks and troughs were used to indicate high frequency parts and low frequency parts, and one peak was predicted as domain so that a trough part is a domain boundary. <PASS method>

Regions (residual regions) that were not detected as domain by using any of these five methods were predicted as domain. <No Hit method>

Regarding the above six domain prediction methods, when a hit region was overlapped, high priority was given to SCOP method, and followed by PFAM method, ProDom method, NR method, PASS method, and No Hit method in this order. When the deviation of the domain boundary includes 30 residues or more and such residues are present in more length in the N- or C-terminal side in

accordance with definition by lower priority method, though a hit region was overlapped, such differential sequence was predicted as other domain. <Differential domain boundary setting method>

At this time, among domain regions presumed by any of the above methods, regions having one or more Low-Complexity regions (sequence region with low complexity) or having the full length of less than 30 residues were removed.

In accordance with such a procedure, a domain of 1110008I14 protein used in this Example was presumed by a PFAM method. As a result, it was presumed that a region from amino acid residue 133 to 261 is a domain region. Note that this region is devoid of a Low-Complexity region (a sequence region low in complexity) and has a length of not less than 30 residues in total. As a result of such a final bio informatics, the region is presumed as the domain.

Based on the data of the bio informatics, various studies were carried out. As a result, it was found that the region from amino acid residue 133 to 251 of 1110008I14 protein actually constitutes the SEA-like domain.

## II. Preparation of construct and synthesis of domain protein

A construct was prepared systematically by extending or shortening the N and C-terminals of the putative domain region of the amino acid sequence of 1110008I14 protein, by several residues relative to the amino acid sequence of the aforementioned putative domain region.

More specifically, the domain border is shifted by 10 residues from amino acid residue 133 of 1110008I14 protein, to obtain 4 patterns of domain constructs starting from amino acid residue 113, 123, 133 and 143. On the other hand, the domain border is shifted by 10 residues from amino acid residue 261 of 1110008I14 protein, to obtain 4 patterns of domain constructs starting from amino acid residue

251, 261, 271 and 281. In combination of these, 16 sequence patterns were prepared in total.

Subsequently, all 16-pattern constructs are expressed and expression states were evaluated by SDS gel electrophoresis.

(Example 1)

In this example, among constructs described above, 1110008I14 protein (133-251) comprising a SEA like domain suitable for three-dimensional structure analysis was studied. Results of the study are described.

<Construction of expression vector>

(1) First PCR

Using a recombinant *E. coli* culture solution containing a plasmid wherein cDNA (DDBJ Accession No. AK003577.1, home page of RIKEN GENOMIC SCIENCES CENTER: <http://www.genome.gsc.riken.go.jp/>, FANTOM DB clone ID. 1110008I14) encoding 1110008I14 protein was cloned in a plasmid pBluescriptII SK+, PCR was performed by use of 5'-primer 1 (SEQ ID NO: 6) and 3'-primer 1 (SEQ ID NO:8). The composition of the PCR reaction solution and the program are shown in Tables 1 and 2, respectively.

[Table 1] Composition of reaction solution for first PCR

Composition	Concentration	Amount added	Final concentration
Template plasmid	(×1/10)	3 µL	(×3/200)
5'-primer 1	0.25 µM	4 µL	0.05 µM
3'-primer 1	0.25 µM	4 µL	0.05 µM
dNTPs(Toyobo)	2 mM	2 µL	0.2 mM
Expand HiFi buffer solution (containing 15 mM magnesium chloride) (Roche)	(10×)	2 µL	(1×)
Sterile distilled water		4.85 µL	
DNA polymerase (Roche)	3.5 U/µL	0.15 µL	0.02625 U/µL
Total amount		20 µL	

[Table 2] Program for first PCR

STEP1	94°C	30 sec
STEP2	60°C	30 sec
STEP3	72°C	2 min
STEP4	GOTO 1 for 9 times	
STEP5	94°C	30 sec
STEP6	60°C	30 sec
STEP7	72°C	2 min+ sec/cycle
STEP8	GOTO 5 for 19 times	
STEP9	72°C	7 min
STEP10	4°C	

## (2) Secondary PCR

Next, second PCR was performed using the first PCR product obtained in the foregoing reaction, 5'-primer 2 (SEQ ID NO:10) having His tag sequence in the downstream of T7 promoter sequence, 3'-primer 2 (SEQ ID NO:11) having a T7 terminator sequence, and universal primer-U2 (SEQ ID NO:12). The program was the same as the above first PCR. The composition of the PCR reaction solution is shown in Table 3.

[Table 3] Composition of reaction solution for second PCR

Composition	Concentration	Amount added	Final concentration
First PCR product (template)	(×1/5)	5 µL	(×1/20)
5'-primer 2	2 µM	0.5 µL	0.05 µM
3'-primer 2	2 µM	0.5 µL	0.05 µM
Universal primer U2	100 µM	0.2 µL	1 µL
dNTPs (Toyobo)	2 mM	2 µL	0.2 mM
Expand HiFi buffer solution (containing 15 mM magnesium chloride) (Roche)	(10×)	2 µL	(1×)
Sterile distilled water		9.65 µL	
DNA polymerase (Roche)	3.5 U/µL	0.15 µL	0.02625 U/µL
Total amount		20 µL	

As a result, a linear double stranded DNA fragment was amplified, which can express a fusion protein of His tag sequence and 1110008I14 protein (133-251) under the control of T7 promoter.

### (3) Cloning

The DNA fragment obtained by the above second PCR reaction was cloned in a vector pPCR2.1 (Invitrogen) with TOPO TA-cloning kit (Invitrogen), and thereby an expression vector P011109-16 was constructed.

<Synthesis of  $^{15}\text{N}$ -labeled SEA-like domain by cell-free protein synthesis reaction using dialysis>

*E. coli* S30 extract was prepared from *E. coli* BL21 codon plus strain according to a method of Zubay et al. (Annu. Rev. Geneti. 7, 267-287, 1973).

A cell-free protein synthesis reaction using dialysis was performed by using 3 ml of a reaction solution, 30 ml of external dialysis fluid at 30°C overnight.

Formulas of the reaction solution and the external dialysis fluid are shown in Table 4 and Table 5, respectively.

[Table 4] Composition of reaction solution

Composition	Final concentration
Hepes-KOH (pH 7.5)	58 mM
DTT	1.8 mM
ATP	1.2 mM
CTP	0.8 mM
GTP	0.8 mM
UTP	0.8 mM
Creatine phosphate	80 mM
Creatine kinase	0.25 mg/mL
Polyethylene glycol (average molecular weight 8000)	4.0%
3',5'-cAMP	0.64 mM
L(-)-5-formyl-5,6,7,8-tetrahydrofolic acid	68 $\mu\text{M}$
<i>E. coli</i> total tRNA	175 $\mu\text{g/mL}$
Potassium glutamate	210 mM
Ammonium acetate	27.5 mM
Magnesium acetate	10.7 mM
[ $^{15}\text{N}$ ] labeled amino acid mixture	3 mg/mL
L-[ $^{15}\text{N}$ ] cystein	1 mM
L-[ $^{15}\text{N}$ ] tryptophan	1 mM
L-[ $^{15}\text{N}$ ] glutamine	1 mM
L-[ $^{15}\text{N}$ ] asparagine	1 mM
Sodium azide	0.05%
T7 RNA polymerase	66.6 $\mu\text{g/mL}$
S30 extract	30%

Template DNA (P011109-16)

1 µg/mL

[Table 5] Composition of external dialysate

Composition	Final concentration
Hepes-KOH (pH 7.5)	58 mM
DTT	1.8 mM
ATP	1.2 mM
CTP	0.8 mM
GTP	0.8 mM
UTP	0.8 mM
Creatine phosphate	80 mM
Creatine kinase	0.25 mg/mL
Polyethylene glycol (average molecular weight 8000)	4.0%
3',5'-cAMP	0.64 mM
L(-)-5-formyl-5,6,7,8-tetrahydrofolic acid	68 µM
Potassium glutamate	210 mM
Ammonium acetate	27.5 mM
Magnesium acetate	10.7 mM
[ <sup>15</sup> N]-labeled amino acid mixture	3 mg/mL
L-[ <sup>15</sup> N] cysteine	1 mM
L-[ <sup>15</sup> N] tryptophan	1 mM
L-[ <sup>15</sup> N] glutamine	1 mM
L-[ <sup>15</sup> N] asparagine	1 mM
Sodium azide	0.05%

#### <Determination of expression status by SDS gel electrophoresis>

After the termination of the synthesis reaction, SDS gel electrophoresis was performed by a conventional method, and the expression status of the obtained protein was determined.

Results thereof are shown in Fig. 1A. According to Fig. 1A, it was confirmed that 1110008I14 protein (133-251) was expressed. An amino acid sequence that forming the region of a SEA-like domain of this 1110008I14 protein (133-251) is represented by SEQ ID NO:1.

(Examples 2)

5'-primer 1 and 3'-primer 1 used in the first PCR in Example 1 were as shown by SEQ ID NO:7 and SQ ID NO:9, respectively, and except that, an expression

vector was constructed in the same manner as Example 1. The obtained linear double stranded DNA fragment was used as a template DNA for protein synthesis.

After completion of the synthesis reaction, the expression status of the protein was checked by SDS gel electrophoresis in the same manner as mentioned above.

The results are shown in Figure 1B. As is confirmed from Figure 1B, 1110008I14 protein (123-261) was expressed. The amino acid sequence of the SEA-like domain region in Example 2 is represented by SEQ ID NO: 2.

[Comparative Examples 1 to 5]

Among constructs produced in the above manner, expression vectors were constructed as in Example 1 regarding polypeptide a (comparative example 1) having an amino acid sequence of 113th to 281st amino acid residues of 1110008I14 protein, polypeptide b (comparative example 2) having an amino acid sequence of 133rd to 281st amino acid residues, polypeptide c (comparative example 3) having an amino acid sequence of 143rd to 251st amino acid residues, polypeptide d (comparative example 4) having an amino acid sequence of 143rd to 261st amino acid residues, and polypeptide e (comparative example 5) having an amino acid sequence of 143rd to 271st amino acid residues. The obtained linear double stranded DNA fragments were used as template DNAs for protein synthesis. At this time, instead of primers used for the first PCR in Example 1, primers having respective DNA sequences properly designed for these comparative examples were used.

Then, the expression statuses of the proteins were determined by SDS gel electrophoresis as described above.

Results thereof are shown in Fig. 2. In comparative examples 1 and 2, Fig. 2 clearly shows that there appeared almost no bands at position corresponding to the molecular weights MWa and MWb (MWa=23.1 kDa, MWb=20.9 kDa) obtained from the amino acid sequences of respective polypeptides a and b, and it was confirmed that proteins of interest were not expressed.

Further, in comparative examples 3 to 5, bands were not able to be found in supernatants at positions corresponding to the molecular weights MWc, MWd, and MWe that were calculated from amino acid sequences of respective polypeptides c, d, and e (MWc = 16.5 kDa, MWd = 17.6 kDa, MWe = 18.7 kDa, respectively), and thus it was obvious that a soluble protein was not obtained.

### III. Structural stability evaluation

#### <Purification of $^{15}\text{N}$ labeled SEA-like domain>

Subsequently, the proteins of interest in the above Examples 1 and 2 that were determined to be in a good expression status were purified.

To purify  $^{15}\text{N}$  labeled protein domain, the affinity of histidine tag and nickel was utilized. The operation was conducted at 4°C. First, after the termination of synthesis reaction, 3 ml of the reaction solution was diluted with 4.2 ml of washing buffer solution [50 mM sodium phosphate (pH 8.0)/300 mM sodium chloride/10 mM imidazole], collected and centrifuged at 1960 g for 5 minutes to remove precipitates. Next, the obtained supernatant was passed through 0.8 ml of Ni-NTA resin (QIAGEN) for adsorption, and passed through 9.6 ml of washing buffer solution to thereby remove contaminants. Finally, the resultant product was passed through 4 ml of elution buffer solution [50 mM sodium phosphate (pH 8.0)/300 mM sodium chloride/500 mM imidazole], and thereby the sample was liberated from the resin. According to the above procedures, 0.88 mg of purified sample was obtained.

#### <Sample preparation for structural stability evaluation>

To make the purified sample a solvent suitable for NMR measurement, substitution by 20 mM sodium phosphate (pH 6.0)/100 mM sodium chloride solution was conducted. Thereafter, the sample was concentrated to 0.25 ml (sample concentration: 0.28 mM). For the above operations, an ultrafilter (VIVASPIN 2; SARTORIUS) was used. Finally, 0.03 ml of heavy water was added, thereby obtaining a sample for structural stability evaluation.



<Three-dimensional structural stability determination by NMR measurement>

As a sample tube for NMR measurement, a symmetrical microtube (for 5 mm probe) manufactured by Shigemi, Inc. was used. The NMR measurement was conducted by a 600 MHz-NMR instrument (Avance 600 manufactured by Bruker) at 25°C. For the evaluation, one-dimensional spectrum of  $^1\text{H}$  (hereinafter abbreviated as 1D spectrum), and  $^1\text{H}$ - $^{15}\text{N}$  two-dimensional HSQC spectrum (hereinafter abbreviated as  $^{15}\text{N}$ -HSQC spectrum) were used, and the conditions therefor were shown in Table 6. Results of Examples 1 and 2 are shown in Figs. 3 and 4, respectively.

[Table 6] NMR measurement conditions

Spectrum	Accumulated times	Center frequency	Spectrum width	Data point number
1D	128	$^1\text{H}$ : 2822 Hz	$^1\text{H}$ : 8013 Hz	$^1\text{H}$ : 8192
$^{15}\text{N}$ HSQC	16	$^1\text{H}$ : 2822 Hz $^{15}\text{N}$ : 7085 Hz	$^1\text{H}$ : 8013 Hz $^{15}\text{N}$ : 2190 Hz	$^1\text{H}$ : 2048 $^{15}\text{N}$ : 128

According to the results of NMR measurement in Figs. 3 and 4, signals shifted to higher magnetic field were recognized at a high magnetic field side (around 0.7 ppm to -0.5 ppm) of methyl region of 1D spectrum. Further, signals of removed amide proton were recognized in the region 7 ppm to 9 ppm in  $^{15}\text{N}$ -HSQC spectrum.

Since the appearance of these signals is characteristic to a protein forming a stable three-dimensional structure, it was determined that the resultant respective 1110008I14 protein (133-251)(Example 1) and 1110008I14 protein (123-261)(Example 2) formed a stable three-dimensional structure.

As mentioned above, we presumed a structural element (domain) having a structure and function of a protein from the full-length protein by a computer and prepared various types of constructs by extending or shortening the domain boundary toward the N- or C-terminals from the above putative domain region. Subsequently,

the protein is expressed and the state of expression of the protein actually obtained was checked by SDS gel electrophoresis. Furthermore, whether each domain has a structure or not was checked by NMR such as HSQC spectrum. As a result, it was confirmed herein that the position of a domain having a folding structure in the amino acid sequence of a protein is accurately determined. Moreover, use of such a protein having a small molecular weight enables three-dimensional structure analysis with ease and accuracy, which is considered to be difficult for a full-length protein.

#### IV. Determination of three-dimensional structure of SEA-like domain by NMR method

A SEA-like domain having a stable three-dimensional structure obtained in the manner described above was subjected to the three-dimensional structure analysis by  $^{13}\text{C}^{15}\text{N}$  multi-nuclear and multi-dimensional NMR method.

##### <Preparation of sample for $^{13}\text{C}^{15}\text{N}$ three-dimensional analysis>.

A protein represented by SEQ ID NO: 5 in which all carbon nuclei and nitrogen nuclei were completely replaced with stable isotope  $^{13}\text{C}$  and  $^{15}\text{N}$ , respectively, was prepared in the same manner as in preparation of the  $^{15}\text{N}$  sample by use of the cell-free protein synthesis system. The protein represented by SEQ ID NO: 5 used herein was prepared by adding the amino acid sequences of linkers for cloning respectively to the N-terminal and C-terminal of a protein represented by SEQ ID NO: 1. Even if these linker amino acid sequences are added, the three dimensional structure would not be affected. Therefore, it can be considered that the three dimensional structure of the protein represented by SEQ ID NO: 1 is automatically and substantially analyzed by analyzing the three-dimensional structure of the protein represented by SEQ ID NO: 5.

The obtained high purity preparation was concentrated to a concentration of about 1.5 mmol/l using a protein concentrator with an ultrafilter membrane for a

high-speed centrifuge, and thereafter diluted 10 times with preparation buffer solution for NMR analysis. Then, the preparation was concentrated back to the former concentration in the same manner.

These concentration and dilution processes were repeated three times, and the buffer solution for purifying preparation was completely substituted by the preparation buffer solution for NMR analysis. The used preparation buffer solution for NMR analysis was composed of 20 mmol/l sodium phosphate, 100 mmol/l sodium chloride, 1 mmol/l dithiothreitol, 0.02% sodium azide and pH thereof was 6.0. After complete substitution by the preparation buffer solution for NMR analysis, the final concentration of the preparation was about 1.5 mmol/l.

The obtained preparation was put to a test tube for NMR measurement with an outer diameter of 5 mm, and then preserved at 25°C for 2 hours for stabilization.

#### <Two-dimensional and three-dimensional NMR measurement>

For NMR experiment, DRX600 and DRX800 manufactured by Swiss Bruker were used. All the measurements were conducted at 25°C.

In NMR measurement having a purpose of main chain signal attribution, a two dimensional spectrum of  $^1\text{H}$ - $^{15}\text{N}$  HSQC, and three dimensional spectrum of HNCO, HN(CA)CO, HNCACB, CBCA(CO)NH, H(CCCO)NH, C(CCCO)NH, and  $^{15}\text{N}$ -edited NOESY were measured.

In addition, in NMR measurement having a purpose of side chain signal attribution, two dimensional spectrum of  $^1\text{H}$ - $^{13}\text{C}$  HSQC TOCXY, NOESY, DQF-COSY and three dimensional spectra: HCCH-TOCSY,  $^{13}\text{C}$ -edited NOESY for aliphatic side chain; and  $^{13}\text{C}$ -edited NOESY for aromatic side chain were measured.

#### <Analysis of measurement data>

The measurement data were subjected to Fourier transform using work stations Octane2 and Origin3800 manufactured by Silicon Graphics, Inc. in America, and respective two dimensional and three dimensional spectra were obtained.

Based on the obtained spectrum data,  $C\alpha$  and  $C\beta$  of carbon nucleus at  $\alpha$  and  $\beta$  positions as main chain signals of amino acid residue;  $C'$  of carbon nucleus of carbonyl group;  $H\alpha$  and  $H\beta$  of hydrogen nucleus at  $\alpha$  and  $\beta$  positions;  $HN$  of hydrogen nucleus of amino group; and  $N$  of nitrogen nucleus of amide group were attributed by a chain attribution method. In this method, a signal having a chemical shift value identical to that of  $C\alpha$  signal of an adjacent residue on  $HN(CO)Ca$  was searched for on  $HNCA$ , and the linkage with  $C\alpha$  signal of a residue adjacent to itself was clarified.

In the chemical shift attribution method used herein, signals corresponding to chemical shift values of  $C\alpha$  and  $C\beta$  signals of adjacent residues on  $CBCA(CO)NH$  are detected on  $HNCACB$ , and the continuity of  $C\alpha$  and  $C\beta$  signals between itself and the adjacent residues is clarified.

This process was repeated, and thereby all  $C\alpha$  and  $C\beta$  signals were continuously attributable, except that signals were not observed due to proline residue or from any cause.

By conducting the same procedure,  $C'$  signal was attributed by  $HNCO$  and  $HN(CA)CO$ . Further, using the obtained spectrum data measured for main chain attribution information and side chain attribution, attributions of carbon, nitrogen, and hydrogen nuclei at  $\gamma$  and after, namely,  $\gamma$ ,  $\delta$ ,  $\epsilon$ ,  $\zeta$ , and  $\eta$  positions were conducted. According to the above procedures, attribution data of signals regarding to almost all the amino acid residues was obtained. Furthermore, distance restriction data was obtained from NOE peaks found on  $^{15}N$ -edited NOESY spectrum,  $^{13}C$ -edited NOESY spectrum for an aliphatic side chain, and  $^{13}C$ -edited NOESY spectrum for aromatic side chain. From the chemical shift values, obtained during main chain attribution, of  $C\alpha$ ,  $C\beta$ ,  $C'$ ,  $H\alpha$ ,  $H\beta$ ,  $HN$ , and  $N$  signals,  $\phi$  and  $\psi$  angle data were obtained using a software TALOS, which predicted with high precision  $\phi$  and  $\psi$  angles, dihedral angles of polypeptide main chain. Based on these signal attribution

data, distance limitation data,  $\phi$ ,  $\psi$  angle data, NOE attribution and a domain structure were calculated using ARIA-CNS, a software for NOE complete automatic attribution and protein three-dimensional structure calculation. For the calculation, 2072 NOE from  $^{13}\text{C}$ -edited NOESY and 1493 NOE from  $^{15}\text{N}$ -edited NOESY. Based on the obtained three-dimensional structure, NOE group which did not meet provided distance limit was compared and reviewed, and then optimized.

This process was repeated, and finally calculation was conducted using all the angle limits and 2277 distance limits, thereby obtaining 20 energetically stable three-dimensional structures. In these structures, the convergence of amino acid residues forming two dimensional structures was 0.450 Å relative to atom group of main chains and 0.920 Å relative to all atom group including side chains except hydrogen atom.

The obtained three-dimensional structure coordinates are shown in the following three-dimensional structure coordinate tables 1 to 20.

The following three-dimensional structure coordinate is described in accordance with the format of protein data bank (PDB). ATOM of the first column indicates that this column is a column for atomic coordinate; the second column indicates the order of atoms; the third column indicates the distinction of atom in amino acid residues, etc.; the fourth column indicates amino acid residues, etc.; the fifth column indicates the number or the like of amino acid corresponding SEQ ID NO:5; the sixth, seventh, and eighth columns indicate coordinates of atom (unit: Å, in the order of a, b and c axes); the ninth column indicates occupancy of that atom (anytime this figure is 1.00 in the invention); the tenth column indicates temperature factor of that atom. The final line indicates the final line of this table. Further, Fig. 5 shows a ribbon diagram of a three-dimensional structure shown in the three-dimensional structure coordinate 1 that is the most stable structure.

Three-Dimensional Structure Coordinate 1

ATOM 1	N	GLY A	1	-15.677	38.114	-12.302	1.00	0.00
ATOM 2	CA	GLY A	1	-15.357	36.834	-11.612	1.00	0.00
ATOM 3	C	GLY A	1	-13.867	36.558	-11.564	1.00	0.00
ATOM 4	O	GLY A	1	-13.071	37.457	-11.291	1.00	0.00
ATOM 5	1H	GLY A	1	-16.708	38.227	-12.386	1.00	0.00
ATOM 6	2H	GLY A	1	-15.261	38.121	-13.255	1.00	0.00
ATOM 7	3H	GLY A	1	-15.294	38.916	-11.762	1.00	0.00
ATOM 8	1HA	GLY A	1	-15.737	36.878	-10.602	1.00	0.00
ATOM 9	2HA	GLY A	1	-15.845	36.024	-12.134	1.00	0.00
ATOM 10	N	SER A	2	-13.489	35.312	-11.830	1.00	0.00
ATOM 11	CA	SER A	2	-12.084	34.920	-11.817	1.00	0.00
ATOM 12	C	SER A	2	-11.470	35.147	-10.439	1.00	0.00
ATOM 13	O	SER A	2	-11.091	36.266	-10.094	1.00	0.00
ATOM 14	CB	SER A	2	-11.303	35.705	-12.871	1.00	0.00
ATOM 15	OG	SER A	2	-11.816	35.464	-14.171	1.00	0.00
ATOM 16	H	SER A	2	-14.171	34.640	-12.042	1.00	0.00
ATOM 17	HA	SER A	2	-12.031	33.868	-12.052	1.00	0.00
ATOM 18	1HB	SER A	2	-11.378	36.762	-12.660	1.00	0.00
ATOM 19	2HB	SER A	2	-10.265	35.406	-12.845	1.00	0.00
ATOM 20	HG	SER A	2	-11.939	34.520	-14.296	1.00	0.00
ATOM 21	N	SER A	3	-11.373	34.078	-9.656	1.00	0.00
ATOM 22	CA	SER A	3	-10.803	34.160	-8.316	1.00	0.00
ATOM 23	C	SER A	3	-9.511	33.355	-8.222	1.00	0.00
ATOM 24	O	SER A	3	-9.179	32.815	-7.167	1.00	0.00
ATOM 25	CB	SER A	3	-11.809	33.651	-7.280	1.00	0.00
ATOM 26	OG	SER A	3	-12.909	34.536	-7.161	1.00	0.00

ATOM 27	H	SER A	3	-11.692	33.212	-9.987	1.00	0.00
ATOM 28	HA	SER A	3	-10.583	35.196	-8.112	1.00	0.00
ATOM 29	1HB	SER A	3	-12.174	32.682	-7.583	1.00	0.00
ATOM 30	2HB	SER A	3	-11.322	33.569	-6.320	1.00	0.00
ATOM 31	HG	SER A	3	-13.237	34.520	-6.259	1.00	0.00
ATOM 32	N	GLY A	4	-8.787	33.278	-9.334	1.00	0.00
ATOM 33	CA	GLY A	4	-7.538	32.538	-9.357	1.00	0.00
ATOM 34	C	GLY A	4	-7.199	32.014	-10.737	1.00	0.00
ATOM 35	O	GLY A	4	-7.224	32.761	-11.715	1.00	0.00
ATOM 36	H	GLY A	4	-9.101	33.730	-10.145	1.00	0.00
ATOM 37	1HA	GLY A	4	-6.741	33.187	-9.024	1.00	0.00
ATOM 38	2HA	GLY A	4	-7.617	31.703	-8.675	1.00	0.00
ATOM 39	N	SER A	5	-6.880	30.726	-10.817	1.00	0.00
ATOM 40	CA	SER A	5	-6.532	30.099	-12.089	1.00	0.00
ATOM 41	C	SER A	5	-5.342	30.802	-12.735	1.00	0.00
ATOM 42	O	SER A	5	-5.469	31.910	-13.255	1.00	0.00
ATOM 43	CB	SER A	5	-7.730	30.120	-13.039	1.00	0.00
ATOM 44	OG	SER A	5	-7.856	31.378	-13.677	1.00	0.00
ATOM 45	H	SER A	5	-6.878	30.183	-10.001	1.00	0.00
ATOM 46	HA	SER A	5	-6.262	29.073	-11.888	1.00	0.00
ATOM 47	1HB	SER A	5	-7.602	29.359	-13.795	1.00	0.00
ATOM 48	2HB	SER A	5	-8.634	29.922	-12.479	1.00	0.00
ATOM 49	HG	SER A	5	-8.430	31.946	-13.157	1.00	0.00
ATOM 50	N	SER A	6	-4.185	30.148	-12.698	1.00	0.00
ATOM 51	CA	SER A	6	-2.971	30.710	-13.279	1.00	0.00
ATOM 52	C	SER A	6	-1.917	29.628	-13.489	1.00	0.00
ATOM 53	O	SER A	6	-0.717	29.893	-13.411	1.00	0.00

ATOM 54	CB	SER A	6	-2.413	31.815	-12.379	1.00	0.00
ATOM 55	OG	SER A	6	-3.458	32.578	-11.801	1.00	0.00
ATOM 56	H	SER A	6	-4.146	29.268	-12.268	1.00	0.00
ATOM 57	HA	SER A	6	-3.229	31.136	-14.237	1.00	0.00
ATOM 58	1HB	SER A	6	-1.830	31.370	-11.588	1.00	0.00
ATOM 59	2HB	SER A	6	-1.786	32.471	-12.965	1.00	0.00
ATOM 60	HG	SER A	6	-3.585	32.307	-10.889	1.00	0.00
ATOM 61	N	GLY A	7	-2.373	28.408	-13.754	1.00	0.00
ATOM 62	CA	GLY A	7	-1.456	27.304	-13.971	1.00	0.00
ATOM 63	C	GLY A	7	-0.879	26.766	-12.677	1.00	0.00
ATOM 64	O	GLY A	7	0.333	26.817	-12.461	1.00	0.00
ATOM 65	H	GLY A	7	-3.340	28.257	-13.803	1.00	0.00
ATOM 66	1HA	GLY A	7	-1.983	26.508	-14.475	1.00	0.00
ATOM 67	2HA	GLY A	7	-0.647	27.642	-14.601	1.00	0.00
ATOM 68	N	SER A	8	-1.746	26.248	-11.813	1.00	0.00
ATOM 69	CA	SER A	8	-1.315	25.699	-10.533	1.00	0.00
ATOM 70	C	SER A	8	-2.027	24.383	-10.238	1.00	0.00
ATOM 71	O	SER A	8	-3.138	24.146	-10.713	1.00	0.00
ATOM 72	CB	SER A	8	-1.582	26.700	-9.408	1.00	0.00
ATOM 73	OG	SER A	8	-0.460	27.537	-9.192	1.00	0.00
ATOM 74	H	SER A	8	-2.699	26.236	-12.042	1.00	0.00
ATOM 75	HA	SER A	8	-0.252	25.513	-10.592	1.00	0.00
ATOM 76	1HB	SER A	8	-2.429	27.316	-9.672	1.00	0.00
ATOM 77	2HB	SER A	8	-1.798	26.164	-8.496	1.00	0.00
ATOM 78	HG	SER A	8	-0.732	28.456	-9.239	1.00	0.00
ATOM 79	N	SER A	9	-1.381	23.529	-9.451	1.00	0.00
ATOM 80	CA	SER A	9	-1.953	22.236	-9.093	1.00	0.00



ATOM 81	C	SER A	9	-1.392	21.741	-7.764	1.00	0.00
ATOM 82	O	SER A	9	-2.142	21.398	-6.851	1.00	0.00
ATOM 83	CB	SER A	9	-1.673	21.209	-10.192	1.00	0.00
ATOM 84	OG	SER A	9	-2.777	20.339	-10.370	1.00	0.00
ATOM 85	H	SER A	9	-0.498	23.773	-9.103	1.00	0.00
ATOM 86	HA	SER A	9	-3.021	22.362	-8.994	1.00	0.00
ATOM 87	1HB	SER A	9	-1.484	21.724	-11.122	1.00	0.00
ATOM 88	2HB	SER A	9	-0.807	20.623	-9.922	1.00	0.00
ATOM 89	HG	SER A	9	-3.569	20.855	-10.537	1.00	0.00
ATOM 90	N	SER A	10	-0.066	21.707	-7.663	1.00	0.00
ATOM 91	CA	SER A	10	0.596	21.254	-6.445	1.00	0.00
ATOM 92	C	SER A	10	0.227	19.807	-6.131	1.00	0.00
ATOM 93	O	SER A	10	-0.737	19.269	-6.676	1.00	0.00
ATOM 94	CB	SER A	10	0.218	22.156	-5.269	1.00	0.00
ATOM 95	OG	SER A	10	1.324	22.360	-4.407	1.00	0.00
ATOM 96	H	SER A	10	0.479	21.992	-8.426	1.00	0.00
ATOM 97	HA	SER A	10	1.662	21.315	-6.606	1.00	0.00
ATOM 98	1HB	SER A	10	-0.111	23.114	-5.644	1.00	0.00
ATOM 99	2HB	SER A	10	-0.582	21.696	-4.707	1.00	0.00
ATOM 100	HG	SER A	10	2.076	22.670	-4.917	1.00	0.00
ATOM 101	N	SER A	11	1.002	19.182	-5.250	1.00	0.00
ATOM 102	CA	SER A	11	0.756	17.798	-4.863	1.00	0.00
ATOM 103	C	SER A	11	0.853	16.870	-6.071	1.00	0.00
ATOM 104	O	SER A	11	0.737	17.309	-7.214	1.00	0.00
ATOM 105	CB	SER A	11	-0.622	17.663	-4.212	1.00	0.00
ATOM 106	OG	SER A	11	-0.539	17.810	-2.805	1.00	0.00
ATOM 107	H	SER A	11	1.755	19.664	-4.849	1.00	0.00

ATOM 108	HA	SER A	11	1.512	17.515	-4.146	1.00	0.00
ATOM 109	1HB	SER A	11	-1.278	18.427	-4.603	1.00	0.00
ATOM 110	2HB	SER A	11	-1.030	16.689	-4.437	1.00	0.00
ATOM 111	N	GLN A	12	1.065	15.585	-5.807	1.00	0.00
ATOM 112	CA	GLN A	12	1.176	14.595	-6.873	1.00	0.00
ATOM 113	C	GLN A	12	0.428	13.316	-6.509	1.00	0.00
ATOM 114	O	GLN A	12	0.273	12.989	-5.332	1.00	0.00
ATOM 115	CB	GLN A	12	2.646	14.279	-7.154	1.00	0.00
ATOM 116	CG	GLN A	12	3.463	14.019	-5.901	1.00	0.00
ATOM 117	CD	GLN A	12	4.259	15.233	-5.461	1.00	0.00
ATOM 118	OE1	GLN A	12	3.799	16.027	-4.640	1.00	0.00
ATOM 119	NE2	GLN A	12	5.460	15.382	-6.007	1.00	0.00
ATOM 120	H	GLN A	12	1.148	15.295	-4.874	1.00	0.00
ATOM 121	HA	GLN A	12	0.731	15.016	-7.761	1.00	0.00
ATOM 122	1HB	GLN A	12	2.700	13.402	-7.782	1.00	0.00
ATOM 123	2HB	GLN A	12	3.087	15.114	-7.679	1.00	0.00
ATOM 124	1HG	GLN A	12	2.794	13.738	-5.101	1.00	0.00
ATOM 125	2HG	GLN A	12	4.149	13.208	-6.095	1.00	0.00
ATOM 126	1HE2	GLN A	12	5.761	14.711	-6.654	1.00	0.00
ATOM 127	2HE2	GLN A	12	5.996	16.159	-5.740	1.00	0.00
ATOM 128	N	HIS A	13	-0.033	12.597	-7.527	1.00	0.00
ATOM 129	CA	HIS A	13	-0.767	11.354	-7.317	1.00	0.00
ATOM 130	C	HIS A	13	-0.070	10.186	-8.009	1.00	0.00
ATOM 131	O	HIS A	13	0.269	10.264	-9.190	1.00	0.00
ATOM 132	CB	HIS A	13	-2.199	11.489	-7.839	1.00	0.00
ATOM 133	CG	HIS A	13	-3.075	12.340	-6.971	1.00	0.00
ATOM 134	ND1	HIS A	13	-4.361	11.984	-6.623	1.00	0.00

ATOM 135	CD2	HIS	A	13	-2.844	13.535	-6.380	1.00	0.00
ATOM 136	CE1	HIS	A	13	-4.883	12.925	-5.856	1.00	0.00
ATOM 137	NE2	HIS	A	13	-3.983	13.877	-5.692	1.00	0.00
ATOM 138	H	HIS	A	13	0.122	12.912	-8.442	1.00	0.00
ATOM 139	HA	HIS	A	13	-0.796	11.163	-6.255	1.00	0.00
ATOM 140	1HB	HIS	A	13	-2.176	11.933	-8.822	1.00	0.00
ATOM 141	2HB	HIS	A	13	-2.644	10.507	-7.902	1.00	0.00
ATOM 142	HD1	HIS	A	13	-4.823	11.165	-6.897	1.00	0.00
ATOM 143	HD2	HIS	A	13	-1.933	14.114	-6.437	1.00	0.00
ATOM 144	HE1	HIS	A	13	-5.877	12.917	-5.434	1.00	0.00
ATOM 145	HE2	HIS	A	13	-4.078	14.648	-5.095	1.00	0.00
ATOM 146	N	PHE	A	14	0.140	9.105	-7.266	1.00	0.00
ATOM 147	CA	PHE	A	14	0.795	7.918	-7.809	1.00	0.00
ATOM 148	C	PHE	A	14	-0.163	6.731	-7.827	1.00	0.00
ATOM 149	O	PHE	A	14	-0.857	6.468	-6.846	1.00	0.00
ATOM 150	CB	PHE	A	14	2.038	7.575	-6.986	1.00	0.00
ATOM 151	CG	PHE	A	14	3.244	8.391	-7.352	1.00	0.00
ATOM 152	CD1	PHE	A	14	3.544	9.556	-6.663	1.00	0.00
ATOM 153	CD2	PHE	A	14	4.080	7.994	-8.384	1.00	0.00
ATOM 154	CE1	PHE	A	14	4.654	10.310	-6.998	1.00	0.00
ATOM 155	CE2	PHE	A	14	5.191	8.742	-8.723	1.00	0.00
ATOM 156	CZ	PHE	A	14	5.478	9.901	-8.029	1.00	0.00
ATOM 157	H	PHE	A	14	-0.154	9.102	-6.331	1.00	0.00
ATOM 158	HA	PHE	A	14	1.094	8.139	-8.822	1.00	0.00
ATOM 159	1HB	PHE	A	14	1.827	7.745	-5.941	1.00	0.00
ATOM 160	2HB	PHE	A	14	2.283	6.534	-7.134	1.00	0.00
ATOM 161	HD1	PHE	A	14	2.901	9.875	-5.857	1.00	0.00

ATOM 162	HD2	PHE A	14	3.855	7.087	-8.927	1.00	0.00
ATOM 163	HE1	PHE A	14	4.876	11.215	-6.454	1.00	0.00
ATOM 164	HE2	PHE A	14	5.833	8.422	-9.529	1.00	0.00
ATOM 165	HZ	PHE A	14	6.345	10.488	-8.292	1.00	0.00
ATOM 166	N	ASN A	15	-0.196	6.018	-8.947	1.00	0.00
ATOM 167	CA	ASN A	15	-1.072	4.859	-9.088	1.00	0.00
ATOM 168	C	ASN A	15	-0.480	3.638	-8.391	1.00	0.00
ATOM 169	O	ASN A	15	0.524	3.082	-8.838	1.00	0.00
ATOM 170	CB	ASN A	15	-1.309	4.553	-10.568	1.00	0.00
ATOM 171	CG	ASN A	15	-2.468	5.343	-11.143	1.00	0.00
ATOM 172	OD1	ASN A	15	-2.479	6.573	-11.096	1.00	0.00
ATOM 173	ND2	ASN A	15	-3.451	4.638	-11.691	1.00	0.00
ATOM 174	H	ASN A	15	0.381	6.276	-9.697	1.00	0.00
ATOM 175	HA	ASN A	15	-2.016	5.101	-8.625	1.00	0.00
ATOM 176	1HB	ASN A	15	-0.419	4.797	-11.127	1.00	0.00
ATOM 177	2HB	ASN A	15	-1.522	3.500	-10.681	1.00	0.00
ATOM 178	1HD2	ASN A	15	-3.375	3.661	-11.693	1.00	0.00
ATOM 179	2HD2	ASN A	15	-4.213	5.124	-12.071	1.00	0.00
ATOM 180	N	LEU A	16	-1.111	3.223	-7.297	1.00	0.00
ATOM 181	CA	LEU A	16	-0.650	2.064	-6.541	1.00	0.00
ATOM 182	C	LEU A	16	-1.417	0.813	-6.954	1.00	0.00
ATOM 183	O	LEU A	16	-2.648	0.802	-6.958	1.00	0.00
ATOM 184	CB	LEU A	16	-0.820	2.310	-5.040	1.00	0.00
ATOM 185	CG	LEU A	16	-0.120	1.295	-4.134	1.00	0.00
ATOM 186	CD1	LEU A	16	1.384	1.325	-4.360	1.00	0.00
ATOM 187	CD2	LEU A	16	-0.450	1.570	-2.674	1.00	0.00
ATOM 188	H	LEU A	16	-1.908	3.705	-6.992	1.00	0.00

ATOM 189	HA	LEU A	16	0.398	1.920	-6.758	1.00	0.00
ATOM 190	1HB	LEU A	16	-0.433	3.293	-4.812	1.00	0.00
ATOM 191	2HB	LEU A	16	-1.876	2.295	-4.812	1.00	0.00
ATOM 192	HG	LEU A	16	-0.474	0.303	-4.376	1.00	0.00
ATOM 193	1HD1	LEU A	16	1.692	0.414	-4.850	1.00	0.00
ATOM 194	2HD1	LEU A	16	1.890	1.411	-3.410	1.00	0.00
ATOM 195	3HD1	LEU A	16	1.639	2.173	-4.981	1.00	0.00
ATOM 196	1HD2	LEU A	16	0.060	0.853	-2.049	1.00	0.00
ATOM 197	2HD2	LEU A	16	-1.516	1.486	-2.523	1.00	0.00
ATOM 198	3HD2	LEU A	16	-0.127	2.568	-2.414	1.00	0.00
ATOM 199	N	ASN A	17	-0.686	-0.241	-7.307	1.00	0.00
ATOM 200	CA	ASN A	17	-1.309	-1.490	-7.726	1.00	0.00
ATOM 201	C	ASN A	17	-0.517	-2.701	-7.238	1.00	0.00
ATOM 202	O	ASN A	17	0.713	-2.706	-7.270	1.00	0.00
ATOM 203	CB	ASN A	17	-1.437	-1.533	-9.249	1.00	0.00
ATOM 204	CG	ASN A	17	-2.516	-0.600	-9.766	1.00	0.00
ATOM 205	OD1	ASN A	17	-2.328	0.615	-9.818	1.00	0.00
ATOM 206	ND2	ASN A	17	-3.653	-1.167	-10.150	1.00	0.00
ATOM 207	H	ASN A	17	0.292	-0.174	-7.288	1.00	0.00
ATOM 208	HA	ASN A	17	-2.296	-1.526	-7.293	1.00	0.00
ATOM 209	1HB	ASN A	17	-0.495	-1.243	-9.692	1.00	0.00
ATOM 210	2HB	ASN A	17	-1.679	-2.539	-9.556	1.00	0.00
ATOM 211	1HD2	ASN A	17	-3.732	-2.142	-10.079	1.00	0.00
ATOM 212	2HD2	ASN A	17	-4.367	-0.588	-10.488	1.00	0.00
ATOM 213	N	PHE A	18	-1.239	-3.725	-6.796	1.00	0.00
ATOM 214	CA	PHE A	18	-0.617	-4.952	-6.306	1.00	0.00
ATOM 215	C	PHE A	18	-1.682	-5.971	-5.908	1.00	0.00

ATOM 216	O	PHE A	18	-2.428	-5.761	-4.953	1.00	0.00
ATOM 217	CB	PHE A	18	0.299	-4.655	-5.118	1.00	0.00
ATOM 218	CG	PHE A	18	-0.428	-4.148	-3.905	1.00	0.00
ATOM 219	CD1	PHE A	18	-0.628	-4.970	-2.808	1.00	0.00
ATOM 220	CD2	PHE A	18	-0.906	-2.849	-3.862	1.00	0.00
ATOM 221	CE1	PHE A	18	-1.293	-4.505	-1.690	1.00	0.00
ATOM 222	CE2	PHE A	18	-1.572	-2.378	-2.747	1.00	0.00
ATOM 223	CZ	PHE A	18	-1.766	-3.207	-1.659	1.00	0.00
ATOM 224	H	PHE A	18	-2.216	-3.657	-6.803	1.00	0.00
ATOM 225	HA	PHE A	18	-0.026	-5.365	-7.111	1.00	0.00
ATOM 226	1HB	PHE A	18	0.816	-5.560	-4.838	1.00	0.00
ATOM 227	2HB	PHE A	18	1.023	-3.908	-5.408	1.00	0.00
ATOM 228	HD1	PHE A	18	-0.258	-5.985	-2.829	1.00	0.00
ATOM 229	HD2	PHE A	18	-0.754	-2.200	-4.712	1.00	0.00
ATOM 230	HE1	PHE A	18	-1.444	-5.155	-0.841	1.00	0.00
ATOM 231	HE2	PHE A	18	-1.940	-1.362	-2.726	1.00	0.00
ATOM 232	HZ	PHE A	18	-2.287	-2.841	-0.787	1.00	0.00
ATOM 233	N	THR A	19	-1.749	-7.069	-6.653	1.00	0.00
ATOM 234	CA	THR A	19	-2.727	-8.119	-6.386	1.00	0.00
ATOM 235	C	THR A	19	-2.409	-8.858	-5.090	1.00	0.00
ATOM 236	O	THR A	19	-1.254	-9.186	-4.817	1.00	0.00
ATOM 237	CB	THR A	19	-2.770	-9.109	-7.551	1.00	0.00
ATOM 238	OG1	THR A	19	-3.066	-8.442	-8.764	1.00	0.00
ATOM 239	CG2	THR A	19	-3.796	-10.207	-7.368	1.00	0.00
ATOM 240	H	THR A	19	-1.130	-7.174	-7.404	1.00	0.00
ATOM 241	HA	THR A	19	-3.696	-7.651	-6.288	1.00	0.00
ATOM 242	HB	THR A	19	-1.800	-9.576	-7.648	1.00	0.00

ATOM 243	HG1	THR	A	19	-3.977	-8.140	-8.751	1.00	0.00
ATOM 244	1HG2	THR	A	19	-4.034	-10.641	-8.327	1.00	0.00
ATOM 245	2HG2	THR	A	19	-4.692	-9.793	-6.927	1.00	0.00
ATOM 246	3HG2	THR	A	19	-3.394	-10.970	-6.717	1.00	0.00
ATOM 247	N	ILE	A	20	-3.444	-9.125	-4.299	1.00	0.00
ATOM 248	CA	ILE	A	20	-3.281	-9.834	-3.036	1.00	0.00
ATOM 249	C	ILE	A	20	-3.795	-11.265	-3.146	1.00	0.00
ATOM 250	O	ILE	A	20	-5.003	-11.504	-3.129	1.00	0.00
ATOM 251	CB	ILE	A	20	-4.023	-9.125	-1.886	1.00	0.00
ATOM 252	CG1	ILE	A	20	-3.634	-7.647	-1.826	1.00	0.00
ATOM 253	CG2	ILE	A	20	-3.724	-9.808	-0.559	1.00	0.00
ATOM 254	CD1	ILE	A	20	-4.543	-6.820	-0.942	1.00	0.00
ATOM 255	H	ILE	A	20	-4.341	-8.841	-4.576	1.00	0.00
ATOM 256	HA	ILE	A	20	-2.227	-9.856	-2.799	1.00	0.00
ATOM 257	HB	ILE	A	20	-5.084	-9.203	-2.070	1.00	0.00
ATOM 258	1HG1	ILE	A	20	-2.629	-7.562	-1.440	1.00	0.00
ATOM 259	2HG1	ILE	A	20	-3.669	-7.231	-2.822	1.00	0.00
ATOM 260	1HG2	ILE	A	20	-4.173	-10.791	-0.552	1.00	0.00
ATOM 261	2HG2	ILE	A	20	-4.134	-9.221	0.249	1.00	0.00
ATOM 262	3HG2	ILE	A	20	-2.656	-9.899	-0.434	1.00	0.00
ATOM 263	1HD1	ILE	A	20	-4.051	-5.893	-0.688	1.00	0.00
ATOM 264	2HD1	ILE	A	20	-4.764	-7.371	-0.039	1.00	0.00
ATOM 265	3HD1	ILE	A	20	-5.461	-6.608	-1.469	1.00	0.00
ATOM 266	N	THR	A	21	-2.873	-12.215	-3.259	1.00	0.00
ATOM 267	CA	THR	A	21	-3.233	-13.624	-3.372	1.00	0.00
ATOM 268	C	THR	A	21	-4.112	-14.062	-2.204	1.00	0.00
ATOM 269	O	THR	A	21	-4.884	-15.015	-2.319	1.00	0.00

ATOM 270	CB	THR A	21	-1.973	-14.490	-3.430	1.00	0.00
ATOM 271	OG1	THR A	21	-1.222	-14.362	-2.236	1.00	0.00
ATOM 272	CG2	THR A	21	-1.062	-14.142	-4.587	1.00	0.00
ATOM 273	H	THR A	21	-1.926	-11.962	-3.268	1.00	0.00
ATOM 274	HA	THR A	21	-3.788	-13.750	-4.290	1.00	0.00
ATOM 275	HB	THR A	21	-2.265	-15.524	-3.539	1.00	0.00
ATOM 276	HG1	THR A	21	-1.565	-14.968	-1.575	1.00	0.00
ATOM 277	1HG2	THR A	21	-0.465	-13.280	-4.328	1.00	0.00
ATOM 278	2HG2	THR A	21	-1.657	-13.919	-5.460	1.00	0.00
ATOM 279	3HG2	THR A	21	-0.413	-14.979	-4.798	1.00	0.00
ATOM 280	N	ASN A	22	-3.992	-13.363	-1.080	1.00	0.00
ATOM 281	CA	ASN A	22	-4.777	-13.681	0.107	1.00	0.00
ATOM 282	C	ASN A	22	-6.099	-12.919	0.107	1.00	0.00
ATOM 283	O	ASN A	22	-6.446	-12.252	1.081	1.00	0.00
ATOM 284	CB	ASN A	22	-3.979	-13.351	1.371	1.00	0.00
ATOM 285	CG	ASN A	22	-4.089	-14.438	2.424	1.00	0.00
ATOM 286	OD1	ASN A	22	-3.404	-15.458	2.353	1.00	0.00
ATOM 287	ND2	ASN A	22	-4.955	-14.224	3.407	1.00	0.00
ATOM 288	H	ASN A	22	-3.361	-12.614	-1.047	1.00	0.00
ATOM 289	HA	ASN A	22	-4.986	-14.740	0.090	1.00	0.00
ATOM 290	1HB	ASN A	22	-2.938	-13.233	1.111	1.00	0.00
ATOM 291	2HB	ASN A	22	-4.348	-12.428	1.793	1.00	0.00
ATOM 292	1HD2	ASN A	22	-5.467	-13.388	3.400	1.00	0.00
ATOM 293	2HD2	ASN A	22	-5.046	-14.910	4.101	1.00	0.00
ATOM 294	N	LEU A	23	-6.835	-13.023	-0.996	1.00	0.00
ATOM 295	CA	LEU A	23	-8.119	-12.344	-1.125	1.00	0.00
ATOM 296	C	LEU A	23	-8.864	-12.822	-2.369	1.00	0.00



ATOM 297	O	LEU A	23	-8.631	-12.322	-3.469	1.00	0.00
ATOM 298	CB	LEU A	23	-7.912	-10.829	-1.191	1.00	0.00
ATOM 299	CG	LEU A	23	-9.061	-9.993	-0.626	1.00	0.00
ATOM 300	CD1	LEU A	23	-10.306	-10.147	-1.487	1.00	0.00
ATOM 301	CD2	LEU A	23	-9.353	-10.391	0.813	1.00	0.00
ATOM 302	H	LEU A	23	-6.506	-13.569	-1.740	1.00	0.00
ATOM 303	HA	LEU A	23	-8.707	-12.579	-0.252	1.00	0.00
ATOM 304	1HB	LEU A	23	-7.013	-10.586	-0.642	1.00	0.00
ATOM 305	2HB	LEU A	23	-7.768	-10.552	-2.225	1.00	0.00
ATOM 306	HG	LEU A	23	-8.777	-8.951	-0.634	1.00	0.00
ATOM 307	1HD1	LEU A	23	-10.106	-9.769	-2.479	1.00	0.00
ATOM 308	2HD1	LEU A	23	-11.118	-9.588	-1.046	1.00	0.00
ATOM 309	3HD1	LEU A	23	-10.577	-11.190	-1.545	1.00	0.00
ATOM 310	1HD2	LEU A	23	-8.456	-10.787	1.266	1.00	0.00
ATOM 311	2HD2	LEU A	23	-10.126	-11.146	0.827	1.00	0.00
ATOM 312	3HD2	LEU A	23	-9.684	-9.525	1.366	1.00	0.00
ATOM 313	N	PRO A	24	-9.775	-13.801	-2.214	1.00	0.00
ATOM 314	CA	PRO A	24	-10.550	-14.339	-3.336	1.00	0.00
ATOM 315	C	PRO A	24	-11.540	-13.323	-3.895	1.00	0.00
ATOM 316	O	PRO A	24	-12.124	-12.535	-3.149	1.00	0.00
ATOM 317	CB	PRO A	24	-11.293	-15.529	-2.723	1.00	0.00
ATOM 318	CG	PRO A	24	-11.373	-15.218	-1.269	1.00	0.00
ATOM 319	CD	PRO A	24	-10.120	-14.458	-0.939	1.00	0.00
ATOM 320	HA	PRO A	24	-9.906	-14.684	-4.131	1.00	0.00
ATOM 321	1HB	PRO A	24	-12.276	-15.609	-3.165	1.00	0.00
ATOM 322	2HB	PRO A	24	-10.737	-16.436	-2.902	1.00	0.00
ATOM 323	1HG	PRO A	24	-12.244	-14.611	-1.070	1.00	0.00

ATOM 324	2HG	PRO	A	24	-11.415	-16.135	-0.699	1.00	0.00
ATOM 325	1HD	PRO	A	24	-10.314	-13.726	-0.169	1.00	0.00
ATOM 326	2HD	PRO	A	24	-9.337	-15.134	-0.631	1.00	0.00
ATOM 327	N	TYR	A	25	-11.724	-13.343	-5.211	1.00	0.00
ATOM 328	CA	TYR	A	25	-12.642	-12.422	-5.870	1.00	0.00
ATOM 329	C	TYR	A	25	-14.065	-12.975	-5.866	1.00	0.00
ATOM 330	O	TYR	A	25	-14.481	-13.650	-6.808	1.00	0.00
ATOM 331	CB	TYR	A	25	-12.189	-12.159	-7.308	1.00	0.00
ATOM 332	CG	TYR	A	25	-12.771	-10.899	-7.907	1.00	0.00
ATOM 333	CD1	TYR	A	25	-14.039	-10.898	-8.475	1.00	0.00
ATOM 334	CD2	TYR	A	25	-12.052	-9.710	-7.906	1.00	0.00
ATOM 335	CE1	TYR	A	25	-14.574	-9.749	-9.025	1.00	0.00
ATOM 336	CE2	TYR	A	25	-12.581	-8.556	-8.453	1.00	0.00
ATOM 337	CZ	TYR	A	25	-13.841	-8.581	-9.011	1.00	0.00
ATOM 338	OH	TYR	A	25	-14.371	-7.435	-9.557	1.00	0.00
ATOM 339	H	TYR	A	25	-11.229	-13.993	-5.752	1.00	0.00
ATOM 340	HA	TYR	A	25	-12.629	-11.492	-5.322	1.00	0.00
ATOM 341	1HB	TYR	A	25	-11.114	-12.069	-7.327	1.00	0.00
ATOM 342	2HB	TYR	A	25	-12.487	-12.992	-7.929	1.00	0.00
ATOM 343	HD1	TYR	A	25	-14.611	-11.815	-8.483	1.00	0.00
ATOM 344	HD2	TYR	A	25	-11.065	-9.695	-7.469	1.00	0.00
ATOM 345	HE1	TYR	A	25	-15.562	-9.769	-9.460	1.00	0.00
ATOM 346	HE2	TYR	A	25	-12.007	-7.642	-8.442	1.00	0.00
ATOM 347	HH	TYR	A	25	-14.206	-6.693	-8.969	1.00	0.00
ATOM 348	N	SER	A	26	-14.804	-12.685	-4.801	1.00	0.00
ATOM 349	CA	SER	A	26	-16.179	-13.153	-4.674	1.00	0.00
ATOM 350	C	SER	A	26	-17.160	-12.103	-5.186	1.00	0.00

ATOM 351	O	SER A	26	-16.762	-11.010	-5.587	1.00	0.00
ATOM 352	CB	SER A	26	-16.493	-13.492	-3.216	1.00	0.00
ATOM 353	OG	SER A	26	-15.900	-14.723	-2.840	1.00	0.00
ATOM 354	H	SER A	26	-14.416	-12.143	-4.083	1.00	0.00
ATOM 355	HA	SER A	26	-16.282	-14.046	-5.272	1.00	0.00
ATOM 356	1HB	SER A	26	-16.108	-12.712	-2.577	1.00	0.00
ATOM 357	2HB	SER A	26	-17.562	-13.567	-3.088	1.00	0.00
ATOM 358	HG	SER A	26	-16.379	-15.095	-2.096	1.00	0.00
ATOM 359	N	GLN A	27	-18.445	-12.445	-5.171	1.00	0.00
ATOM 360	CA	GLN A	27	-19.484	-11.532	-5.633	1.00	0.00
ATOM 361	C	GLN A	27	-19.527	-10.276	-4.770	1.00	0.00
ATOM 362	O	GLN A	27	-19.837	-9.187	-5.257	1.00	0.00
ATOM 363	CB	GLN A	27	-20.847	-12.228	-5.615	1.00	0.00
ATOM 364	CG	GLN A	27	-21.282	-12.748	-6.975	1.00	0.00
ATOM 365	CD	GLN A	27	-20.302	-13.748	-7.558	1.00	0.00
ATOM 366	OE1	GLN A	27	-19.255	-13.374	-8.084	1.00	0.00
ATOM 367	NE2	GLN A	27	-20.641	-15.029	-7.467	1.00	0.00
ATOM 368	H	GLN A	27	-18.700	-13.331	-4.840	1.00	0.00
ATOM 369	HA	GLN A	27	-19.248	-11.249	-6.649	1.00	0.00
ATOM 370	1HB	GLN A	27	-20.803	-13.063	-4.931	1.00	0.00
ATOM 371	2HB	GLN A	27	-21.593	-11.528	-5.267	1.00	0.00
ATOM 372	1HG	GLN A	27	-22.244	-13.228	-6.873	1.00	0.00
ATOM 373	2HG	GLN A	27	-21.369	-11.913	-7.655	1.00	0.00
ATOM 374	1HE2	GLN A	27	-21.490	-15.254	-7.035	1.00	0.00
ATOM 375	2HE2	GLN A	27	-20.025	-15.698	-7.835	1.00	0.00
ATOM 376	N	ASP A	28	-19.215	-10.432	-3.488	1.00	0.00
ATOM 377	CA	ASP A	28	-19.217	-9.309	-2.558	1.00	0.00

ATOM 378	C	ASP A	28	-18.189	-8.260	-2.970	1.00	0.00
ATOM 379	O	ASP A	28	-18.475	-7.063	-2.972	1.00	0.00
ATOM 380	CB	ASP A	28	-18.926	-9.795	-1.137	1.00	0.00
ATOM 381	CG	ASP A	28	-20.053	-10.637	-0.572	1.00	0.00
ATOM 382	OD1	ASP A	28	-19.760	-11.662	0.078	1.00	0.00
ATOM 383	OD2	ASP A	28	-21.229	-10.272	-0.780	1.00	0.00
ATOM 384	H	ASP A	28	-18.976	-11.324	-3.160	1.00	0.00
ATOM 385	HA	ASP A	28	-20.200	-8.862	-2.582	1.00	0.00
ATOM 386	1HB	ASP A	28	-18.025	-10.392	-1.145	1.00	0.00
ATOM 387	2HB	ASP A	28	-18.783	-8.940	-0.494	1.00	0.00
ATOM 388	N	ILE A	29	-16.992	-8.719	-3.319	1.00	0.00
ATOM 389	CA	ILE A	29	-15.921	-7.820	-3.734	1.00	0.00
ATOM 390	C	ILE A	29	-16.287	-7.075	-5.017	1.00	0.00
ATOM 391	O	ILE A	29	-15.673	-6.061	-5.350	1.00	0.00
ATOM 392	CB	ILE A	29	-14.601	-8.584	-3.955	1.00	0.00
ATOM 393	CG1	ILE A	29	-14.274	-9.449	-2.735	1.00	0.00
ATOM 394	CG2	ILE A	29	-13.466	-7.613	-4.240	1.00	0.00
ATOM 395	CD1	ILE A	29	-14.172	-8.661	-1.447	1.00	0.00
ATOM 396	H	ILE A	29	-16.825	-9.684	-3.298	1.00	0.00
ATOM 397	HA	ILE A	29	-15.767	-7.101	-2.944	1.00	0.00
ATOM 398	HB	ILE A	29	-14.720	-9.223	-4.818	1.00	0.00
ATOM 399	1HG1	ILE A	29	-15.047	-10.190	-2.609	1.00	0.00
ATOM 400	2HG1	ILE A	29	-13.328	-9.945	-2.898	1.00	0.00
ATOM 401	1HG2	ILE A	29	-13.506	-7.305	-5.276	1.00	0.00
ATOM 402	2HG2	ILE A	29	-12.520	-8.097	-4.045	1.00	0.00
ATOM 403	3HG2	ILE A	29	-13.564	-6.746	-3.604	1.00	0.00
ATOM 404	1HD1	ILE A	29	-14.912	-9.019	-0.747	1.00	0.00

ATOM 405	2HD1	ILE	A	29	-14.344	-7.614	-1.650	1.00	0.00
ATOM 406	3HD1	ILE	A	29	-13.185	-8.788	-1.025	1.00	0.00
ATOM 407	N	ALA	A	30	-17.287	-7.580	-5.733	1.00	0.00
ATOM 408	CA	ALA	A	30	-17.728	-6.957	-6.975	1.00	0.00
ATOM 409	C	ALA	A	30	-18.731	-5.840	-6.707	1.00	0.00
ATOM 410	O	ALA	A	30	-18.846	-4.897	-7.489	1.00	0.00
ATOM 411	CB	ALA	A	30	-18.333	-8.001	-7.901	1.00	0.00
ATOM 412	H	ALA	A	30	-17.740	-8.391	-5.419	1.00	0.00
ATOM 413	HA	ALA	A	30	-16.859	-6.539	-7.462	1.00	0.00
ATOM 414	1HB	ALA	A	30	-18.859	-8.741	-7.315	1.00	0.00
ATOM 415	2HB	ALA	A	30	-17.548	-8.481	-8.465	1.00	0.00
ATOM 416	3HB	ALA	A	30	-19.023	-7.523	-8.580	1.00	0.00
ATOM 417	N	GLN	A	31	-19.458	-5.954	-5.600	1.00	0.00
ATOM 418	CA	GLN	A	31	-20.454	-4.953	-5.234	1.00	0.00
ATOM 419	C	GLN	A	31	-20.021	-4.178	-3.988	1.00	0.00
ATOM 420	O	GLN	A	31	-19.814	-4.765	-2.927	1.00	0.00
ATOM 421	CB	GLN	A	31	-21.808	-5.621	-4.986	1.00	0.00
ATOM 422	CG	GLN	A	31	-22.611	-5.856	-6.254	1.00	0.00
ATOM 423	CD	GLN	A	31	-23.722	-4.840	-6.437	1.00	0.00
ATOM 424	OE1	GLN	A	31	-23.479	-3.702	-6.835	1.00	0.00
ATOM 425	NE2	GLN	A	31	-24.952	-5.250	-6.146	1.00	0.00
ATOM 426	H	GLN	A	31	-19.324	-6.729	-5.016	1.00	0.00
ATOM 427	HA	GLN	A	31	-20.551	-4.267	-6.061	1.00	0.00
ATOM 428	1HB	GLN	A	31	-21.643	-6.576	-4.509	1.00	0.00
ATOM 429	2HB	GLN	A	31	-22.390	-4.995	-4.327	1.00	0.00
ATOM 430	1HG	GLN	A	31	-21.947	-5.794	-7.103	1.00	0.00
ATOM 431	2HG	GLN	A	31	-23.048	-6.843	-6.211	1.00	0.00

ATOM 432	1HE2	GLN	A	31	-25.071	-6.172	-5.833	1.00	0.00
ATOM 433	2HE2	GLN	A	31	-25.689	-4.614	-6.254	1.00	0.00
ATOM 434	N	PRO	A	32	-19.875	-2.842	-4.098	1.00	0.00
ATOM 435	CA	PRO	A	32	-19.463	-1.997	-2.968	1.00	0.00
ATOM 436	C	PRO	A	32	-20.457	-2.034	-1.808	1.00	0.00
ATOM 437	O	PRO	A	32	-20.153	-1.572	-0.709	1.00	0.00
ATOM 438	CB	PRO	A	32	-19.404	-0.585	-3.567	1.00	0.00
ATOM 439	CG	PRO	A	32	-19.336	-0.785	-5.041	1.00	0.00
ATOM 440	CD	PRO	A	32	-20.095	-2.051	-5.320	1.00	0.00
ATOM 441	HA	PRO	A	32	-18.484	-2.276	-2.607	1.00	0.00
ATOM 442	1HB	PRO	A	32	-20.290	-0.034	-3.285	1.00	0.00
ATOM 443	2HB	PRO	A	32	-18.526	-0.074	-3.200	1.00	0.00
ATOM 444	1HG	PRO	A	32	-19.798	0.048	-5.548	1.00	0.00
ATOM 445	2HG	PRO	A	32	-18.307	-0.890	-5.352	1.00	0.00
ATOM 446	1HD	PRO	A	32	-21.144	-1.840	-5.462	1.00	0.00
ATOM 447	2HD	PRO	A	32	-19.686	-2.552	-6.184	1.00	0.00
ATOM 448	N	SER	A	33	-21.645	-2.579	-2.059	1.00	0.00
ATOM 449	CA	SER	A	33	-22.676	-2.667	-1.030	1.00	0.00
ATOM 450	C	SER	A	33	-22.613	-4.004	-0.296	1.00	0.00
ATOM 451	O	SER	A	33	-23.642	-4.564	0.083	1.00	0.00
ATOM 452	CB	SER	A	33	-24.061	-2.481	-1.652	1.00	0.00
ATOM 453	OG	SER	A	33	-25.041	-2.240	-0.656	1.00	0.00
ATOM 454	H	SER	A	33	-21.835	-2.928	-2.953	1.00	0.00
ATOM 455	HA	SER	A	33	-22.503	-1.873	-0.320	1.00	0.00
ATOM 456	1HB	SER	A	33	-24.039	-1.640	-2.328	1.00	0.00
ATOM 457	2HB	SER	A	33	-24.331	-3.374	-2.197	1.00	0.00
ATOM 458	HG	SER	A	33	-24.827	-1.431	-0.186	1.00	0.00

ATOM 459	N	THR A	34	-21.400	-4.511	-0.097	1.00	0.00
ATOM 460	CA	THR A	34	-21.207	-5.781	0.595	1.00	0.00
ATOM 461	C	THR A	34	-20.246	-5.619	1.769	1.00	0.00
ATOM 462	O	THR A	34	-19.607	-4.578	1.922	1.00	0.00
ATOM 463	CB	THR A	34	-20.676	-6.838	-0.373	1.00	0.00
ATOM 464	OG1	THR A	34	-19.315	-6.596	-0.682	1.00	0.00
ATOM 465	CG2	THR A	34	-21.439	-6.892	-1.679	1.00	0.00
ATOM 466	H	THR A	34	-20.618	-4.020	-0.420	1.00	0.00
ATOM 467	HA	THR A	34	-22.166	-6.102	0.973	1.00	0.00
ATOM 468	HB	THR A	34	-20.750	-7.810	0.094	1.00	0.00
ATOM 469	HG1	THR A	34	-19.225	-5.727	-1.077	1.00	0.00
ATOM 470	1HG2	THR A	34	-20.754	-6.759	-2.502	1.00	0.00
ATOM 471	2HG2	THR A	34	-22.181	-6.107	-1.695	1.00	0.00
ATOM 472	3HG2	THR A	34	-21.928	-7.851	-1.769	1.00	0.00
ATOM 473	N	THR A	35	-20.149	-6.655	2.595	1.00	0.00
ATOM 474	CA	THR A	35	-19.266	-6.626	3.755	1.00	0.00
ATOM 475	C	THR A	35	-17.833	-6.965	3.358	1.00	0.00
ATOM 476	O	THR A	35	-16.890	-6.279	3.754	1.00	0.00
ATOM 477	CB	THR A	35	-19.757	-7.609	4.819	1.00	0.00
ATOM 478	OG1	THR A	35	-21.173	-7.624	4.873	1.00	0.00
ATOM 479	CG2	THR A	35	-19.250	-7.289	6.210	1.00	0.00
ATOM 480	H	THR A	35	-20.684	-7.458	2.421	1.00	0.00
ATOM 481	HA	THR A	35	-19.287	-5.628	4.163	1.00	0.00
ATOM 482	HB	THR A	35	-19.416	-8.601	4.563	1.00	0.00
ATOM 483	HG1	THR A	35	-21.490	-6.788	5.221	1.00	0.00
ATOM 484	1HG2	THR A	35	-19.125	-8.206	6.767	1.00	0.00
ATOM 485	2HG2	THR A	35	-19.962	-6.655	6.716	1.00	0.00

ATOM 486	3HG2	THR	A	35	-18.301	-6.779	6.138	1.00	0.00
ATOM 487	N	LYS	A	36	-17.676	-8.025	2.572	1.00	0.00
ATOM 488	CA	LYS	A	36	-16.358	-8.456	2.120	1.00	0.00
ATOM 489	C	LYS	A	36	-15.644	-7.338	1.366	1.00	0.00
ATOM 490	O	LYS	A	36	-14.415	-7.284	1.334	1.00	0.00
ATOM 491	CB	LYS	A	36	-16.482	-9.691	1.224	1.00	0.00
ATOM 492	CG	LYS	A	36	-15.267	-10.601	1.272	1.00	0.00
ATOM 493	CD	LYS	A	36	-15.142	-11.295	2.619	1.00	0.00
ATOM 494	CE	LYS	A	36	-14.106	-10.618	3.502	1.00	0.00
ATOM 495	NZ	LYS	A	36	-12.869	-11.436	3.632	1.00	0.00
ATOM 496	H	LYS	A	36	-18.467	-8.531	2.290	1.00	0.00
ATOM 497	HA	LYS	A	36	-15.776	-8.713	2.992	1.00	0.00
ATOM 498	1HB	LYS	A	36	-17.345	-10.261	1.536	1.00	0.00
ATOM 499	2HB	LYS	A	36	-16.624	-9.368	0.203	1.00	0.00
ATOM 500	1HG	LYS	A	36	-15.360	-11.351	0.500	1.00	0.00
ATOM 501	2HG	LYS	A	36	-14.379	-10.011	1.098	1.00	0.00
ATOM 502	1HD	LYS	A	36	-16.099	-11.266	3.118	1.00	0.00
ATOM 503	2HD	LYS	A	36	-14.849	-12.323	2.458	1.00	0.00
ATOM 504	1HE	LYS	A	36	-13.852	-9.662	3.071	1.00	0.00
ATOM 505	2HE	LYS	A	36	-14.532	-10.467	4.484	1.00	0.00
ATOM 506	1HZ	LYS	A	36	-12.973	-12.125	4.404	1.00	0.00
ATOM 507	2HZ	LYS	A	36	-12.055	-10.822	3.839	1.00	0.00
ATOM 508	3HZ	LYS	A	36	-12.684	-11.948	2.746	1.00	0.00
ATOM 509	N	TYR	A	37	-16.421	-6.446	0.759	1.00	0.00
ATOM 510	CA	TYR	A	37	-15.861	-5.330	0.006	1.00	0.00
ATOM 511	C	TYR	A	37	-15.420	-4.206	0.938	1.00	0.00
ATOM 512	O	TYR	A	37	-14.250	-3.824	0.955	1.00	0.00



ATOM 513	CB	TYR A	37	-16.888	-4.803	-1.000	1.00	0.00
ATOM 514	CG	TYR A	37	-16.393	-3.627	-1.813	1.00	0.00
ATOM 515	CD1	TYR A	37	-16.372	-2.346	-1.276	1.00	0.00
ATOM 516	CD2	TYR A	37	-15.946	-3.799	-3.117	1.00	0.00
ATOM 517	CE1	TYR A	37	-15.921	-1.270	-2.016	1.00	0.00
ATOM 518	CE2	TYR A	37	-15.493	-2.728	-3.863	1.00	0.00
ATOM 519	CZ	TYR A	37	-15.483	-1.466	-3.308	1.00	0.00
ATOM 520	OH	TYR A	37	-15.032	-0.397	-4.048	1.00	0.00
ATOM 521	H	TYR A	37	-17.395	-6.541	0.818	1.00	0.00
ATOM 522	HA	TYR A	37	-15.000	-5.694	-0.533	1.00	0.00
ATOM 523	1HB	TYR A	37	-17.148	-5.593	-1.687	1.00	0.00
ATOM 524	2HB	TYR A	37	-17.774	-4.489	-0.468	1.00	0.00
ATOM 525	HD1	TYR A	37	-16.716	-2.195	-0.263	1.00	0.00
ATOM 526	HD2	TYR A	37	-15.957	-4.789	-3.549	1.00	0.00
ATOM 527	HE1	TYR A	37	-15.913	-0.282	-1.581	1.00	0.00
ATOM 528	HE2	TYR A	37	-15.150	-2.882	-4.875	1.00	0.00
ATOM 529	HH	TYR A	37	-15.381	-0.455	-4.941	1.00	0.00
ATOM 530	N	GLN A	38	-16.365	-3.680	1.711	1.00	0.00
ATOM 531	CA	GLN A	38	-16.074	-2.598	2.645	1.00	0.00
ATOM 532	C	GLN A	38	-14.990	-3.004	3.638	1.00	0.00
ATOM 533	O	GLN A	38	-14.089	-2.222	3.943	1.00	0.00
ATOM 534	CB	GLN A	38	-17.344	-2.190	3.396	1.00	0.00
ATOM 535	CG	GLN A	38	-18.490	-1.790	2.480	1.00	0.00
ATOM 536	CD	GLN A	38	-18.673	-0.288	2.396	1.00	0.00
ATOM 537	OE1	GLN A	38	-17.972	0.473	3.061	1.00	0.00
ATOM 538	NE2	GLN A	38	-19.620	0.147	1.574	1.00	0.00
ATOM 539	H	GLN A	38	-17.279	-4.027	1.652	1.00	0.00

ATOM 540	HA	GLN A	38	-15.720	-1.753	2.071	1.00	0.00
ATOM 541	1HB	GLN A	38	-17.670	-3.019	4.005	1.00	0.00
ATOM 542	2HB	GLN A	38	-17.115	-1.351	4.036	1.00	0.00
ATOM 543	1HG	GLN A	38	-18.291	-2.170	1.489	1.00	0.00
ATOM 544	2HG	GLN A	38	-19.403	-2.230	2.856	1.00	0.00
ATOM 545	1HE2	GLN A	38	-20.141	-0.516	1.074	1.00	0.00
ATOM 546	2HE2	GLN A	38	-19.761	1.114	1.499	1.00	0.00
ATOM 547	N	GLN A	39	-15.084	-4.230	4.143	1.00	0.00
ATOM 548	CA	GLN A	39	-14.111	-4.736	5.104	1.00	0.00
ATOM 549	C	GLN A	39	-12.704	-4.728	4.513	1.00	0.00
ATOM 550	O	GLN A	39	-11.806	-4.067	5.033	1.00	0.00
ATOM 551	CB	GLN A	39	-14.485	-6.153	5.542	1.00	0.00
ATOM 552	CG	GLN A	39	-15.505	-6.191	6.668	1.00	0.00
ATOM 553	CD	GLN A	39	-15.562	-7.541	7.357	1.00	0.00
ATOM 554	OE1	GLN A	39	-14.753	-8.426	7.080	1.00	0.00
ATOM 555	NE2	GLN A	39	-16.521	-7.704	8.260	1.00	0.00
ATOM 556	H	GLN A	39	-15.825	-4.806	3.864	1.00	0.00
ATOM 557	HA	GLN A	39	-14.129	-4.086	5.966	1.00	0.00
ATOM 558	1HB	GLN A	39	-14.895	-6.683	4.695	1.00	0.00
ATOM 559	2HB	GLN A	39	-13.592	-6.662	5.875	1.00	0.00
ATOM 560	1HG	GLN A	39	-15.242	-5.441	7.400	1.00	0.00
ATOM 561	2HG	GLN A	39	-16.481	-5.969	6.261	1.00	0.00
ATOM 562	1HE2	GLN A	39	-17.130	-6.955	8.430	1.00	0.00
ATOM 563	2HE2	GLN A	39	-16.581	-8.567	8.721	1.00	0.00
ATOM 564	N	THR A	40	-12.521	-5.467	3.424	1.00	0.00
ATOM 565	CA	THR A	40	-11.223	-5.545	2.763	1.00	0.00
ATOM 566	C	THR A	40	-10.762	-4.167	2.299	1.00	0.00

ATOM 567	O	THR A	40	-9.573	-3.854	2.336	1.00	0.00
ATOM 568	CB	THR A	40	-11.291	-6.501	1.570	1.00	0.00
ATOM 569	OG1	THR A	40	-11.991	-7.683	1.916	1.00	0.00
ATOM 570	CG2	THR A	40	-9.930	-6.908	1.050	1.00	0.00
ATOM 571	H	THR A	40	-13.275	-5.973	3.057	1.00	0.00
ATOM 572	HA	THR A	40	-10.510	-5.928	3.478	1.00	0.00
ATOM 573	HB	THR A	40	-11.822	-6.016	0.765	1.00	0.00
ATOM 574	HG1	THR A	40	-12.022	-8.270	1.156	1.00	0.00
ATOM 575	1HG2	THR A	40	-9.275	-7.119	1.882	1.00	0.00
ATOM 576	2HG2	THR A	40	-9.515	-6.103	0.460	1.00	0.00
ATOM 577	3HG2	THR A	40	-10.029	-7.791	0.436	1.00	0.00
ATOM 578	N	LYS A	41	-11.713	-3.347	1.861	1.00	0.00
ATOM 579	CA	LYS A	41	-11.403	-2.002	1.389	1.00	0.00
ATOM 580	C	LYS A	41	-10.749	-1.174	2.489	1.00	0.00
ATOM 581	O	LYS A	41	-9.770	-0.468	2.250	1.00	0.00
ATOM 582	CB	LYS A	41	-12.674	-1.307	0.898	1.00	0.00
ATOM 583	CG	LYS A	41	-12.408	-0.010	0.151	1.00	0.00
ATOM 584	CD	LYS A	41	-13.544	0.327	-0.802	1.00	0.00
ATOM 585	CE	LYS A	41	-13.368	1.707	-1.417	1.00	0.00
ATOM 586	NZ	LYS A	41	-14.566	2.565	-1.205	1.00	0.00
ATOM 587	H	LYS A	41	-12.644	-3.653	1.855	1.00	0.00
ATOM 588	HA	LYS A	41	-10.712	-2.093	0.563	1.00	0.00
ATOM 589	1HB	LYS A	41	-13.204	-1.975	0.236	1.00	0.00
ATOM 590	2HB	LYS A	41	-13.301	-1.085	1.749	1.00	0.00
ATOM 591	1HG	LYS A	41	-12.304	0.791	0.867	1.00	0.00
ATOM 592	2HG	LYS A	41	-11.493	-0.113	-0.414	1.00	0.00
ATOM 593	1HD	LYS A	41	-13.566	-0.407	-1.593	1.00	0.00

ATOM 594	2HD	LYS	A	41	-14.477	0.301	-0.258	1.00	0.00
ATOM 595	1HE	LYS	A	41	-12.512	2.184	-0.965	1.00	0.00
ATOM 596	2HE	LYS	A	41	-13.199	1.595	-2.477	1.00	0.00
ATOM 597	1HZ	LYS	A	41	-14.526	3.396	-1.830	1.00	0.00
ATOM 598	2HZ	LYS	A	41	-14.605	2.890	-0.218	1.00	0.00
ATOM 599	3HZ	LYS	A	41	-15.432	2.028	-1.416	1.00	0.00
ATOM 600	N	ARG	A	42	-11.298	-1.264	3.696	1.00	0.00
ATOM 601	CA	ARG	A	42	-10.767	-0.521	4.834	1.00	0.00
ATOM 602	C	ARG	A	42	-9.589	-1.257	5.465	1.00	0.00
ATOM 603	O	ARG	A	42	-8.674	-0.635	6.005	1.00	0.00
ATOM 604	CB	ARG	A	42	-11.863	-0.296	5.879	1.00	0.00
ATOM 605	CG	ARG	A	42	-11.686	0.984	6.680	1.00	0.00
ATOM 606	CD	ARG	A	42	-13.026	1.620	7.015	1.00	0.00
ATOM 607	NE	ARG	A	42	-13.600	1.070	8.242	1.00	0.00
ATOM 608	CZ	ARG	A	42	-14.561	1.668	8.943	1.00	0.00
ATOM 609	NH1	ARG	A	42	-15.055	2.834	8.545	1.00	0.00
ATOM 610	NH2	ARG	A	42	-15.026	1.100	10.047	1.00	0.00
ATOM 611	H	ARG	A	42	-12.078	-1.842	3.825	1.00	0.00
ATOM 612	HA	ARG	A	42	-10.425	0.437	4.473	1.00	0.00
ATOM 613	1HB	ARG	A	42	-12.818	-0.254	5.377	1.00	0.00
ATOM 614	2HB	ARG	A	42	-11.863	-1.129	6.567	1.00	0.00
ATOM 615	1HG	ARG	A	42	-11.169	0.754	7.598	1.00	0.00
ATOM 616	2HG	ARG	A	42	-11.102	1.682	6.099	1.00	0.00
ATOM 617	1HD	ARG	A	42	-12.884	2.682	7.141	1.00	0.00
ATOM 618	2HD	ARG	A	42	-13.709	1.443	6.197	1.00	0.00
ATOM 619	HE	ARG	A	42	-13.254	0.210	8.558	1.00	0.00
ATOM 620	1HH1	ARG	A	42	-14.709	3.268	7.714	1.00	0.00

ATOM 621	2HH1	ARG	A	42	-15.777	3.279	9.078	1.00	0.00
ATOM 622	1HH2	ARG	A	42	-14.658	0.222	10.351	1.00	0.00
ATOM 623	2HH2	ARG	A	42	-15.748	1.550	10.575	1.00	0.00
ATOM 624	N	SER	A	43	-9.618	-2.583	5.393	1.00	0.00
ATOM 625	CA	SER	A	43	-8.552	-3.404	5.957	1.00	0.00
ATOM 626	C	SER	A	43	-7.212	-3.075	5.308	1.00	0.00
ATOM 627	O	SER	A	43	-6.221	-2.830	5.998	1.00	0.00
ATOM 628	CB	SER	A	43	-8.871	-4.889	5.773	1.00	0.00
ATOM 629	OG	SER	A	43	-8.266	-5.670	6.788	1.00	0.00
ATOM 630	H	SER	A	43	-10.375	-3.021	4.950	1.00	0.00
ATOM 631	HA	SER	A	43	-8.491	-3.186	7.013	1.00	0.00
ATOM 632	1HB	SER	A	43	-9.940	-5.034	5.815	1.00	0.00
ATOM 633	2HB	SER	A	43	-8.500	-5.217	4.814	1.00	0.00
ATOM 634	HG	SER	A	43	-7.358	-5.385	6.914	1.00	0.00
ATOM 635	N	ILE	A	44	-7.187	-3.070	3.980	1.00	0.00
ATOM 636	CA	ILE	A	44	-5.968	-2.770	3.239	1.00	0.00
ATOM 637	C	ILE	A	44	-5.569	-1.309	3.412	1.00	0.00
ATOM 638	O	ILE	A	44	-4.405	-0.999	3.662	1.00	0.00
ATOM 639	CB	ILE	A	44	-6.133	-3.076	1.737	1.00	0.00
ATOM 640	CG1	ILE	A	44	-6.639	-4.505	1.537	1.00	0.00
ATOM 641	CG2	ILE	A	44	-4.814	-2.870	1.005	1.00	0.00
ATOM 642	CD1	ILE	A	44	-7.068	-4.802	0.118	1.00	0.00
ATOM 643	H	ILE	A	44	-8.010	-3.273	3.486	1.00	0.00
ATOM 644	HA	ILE	A	44	-5.179	-3.398	3.629	1.00	0.00
ATOM 645	HB	ILE	A	44	-6.855	-2.385	1.329	1.00	0.00
ATOM 646	1HG1	ILE	A	44	-5.854	-5.199	1.798	1.00	0.00
ATOM 647	2HG1	ILE	A	44	-7.490	-4.672	2.183	1.00	0.00

ATOM 648	1HG2	ILE	A	44	-3.994	-3.000	1.696	1.00	0.00
ATOM 649	2HG2	ILE	A	44	-4.784	-1.873	0.592	1.00	0.00
ATOM 650	3HG2	ILE	A	44	-4.730	-3.592	0.207	1.00	0.00
ATOM 651	1HD1	ILE	A	44	-6.197	-4.845	-0.520	1.00	0.00
ATOM 652	2HD1	ILE	A	44	-7.729	-4.021	-0.230	1.00	0.00
ATOM 653	3HD1	ILE	A	44	-7.584	-5.751	0.087	1.00	0.00
ATOM 654	N	GLU	A	45	-6.544	-0.414	3.278	1.00	0.00
ATOM 655	CA	GLU	A	45	-6.293	1.015	3.422	1.00	0.00
ATOM 656	C	GLU	A	45	-5.741	1.331	4.808	1.00	0.00
ATOM 657	O	GLU	A	45	-4.948	2.259	4.975	1.00	0.00
ATOM 658	CB	GLU	A	45	-7.579	1.807	3.179	1.00	0.00
ATOM 659	CG	GLU	A	45	-7.356	3.122	2.451	1.00	0.00
ATOM 660	CD	GLU	A	45	-8.558	4.041	2.528	1.00	0.00
ATOM 661	OE1	GLU	A	45	-9.158	4.146	3.618	1.00	0.00
ATOM 662	OE2	GLU	A	45	-8.901	4.657	1.496	1.00	0.00
ATOM 663	H	GLU	A	45	-7.452	-0.723	3.080	1.00	0.00
ATOM 664	HA	GLU	A	45	-5.560	1.300	2.681	1.00	0.00
ATOM 665	1HB	GLU	A	45	-8.253	1.204	2.589	1.00	0.00
ATOM 666	2HB	GLU	A	45	-8.041	2.021	4.132	1.00	0.00
ATOM 667	1HG	GLU	A	45	-6.509	3.625	2.896	1.00	0.00
ATOM 668	2HG	GLU	A	45	-7.144	2.913	1.413	1.00	0.00
ATOM 669	N	ASN	A	46	-6.162	0.552	5.798	1.00	0.00
ATOM 670	CA	ASN	A	46	-5.710	0.744	7.170	1.00	0.00
ATOM 671	C	ASN	A	46	-4.285	0.230	7.347	1.00	0.00
ATOM 672	O	ASN	A	46	-3.481	0.832	8.059	1.00	0.00
ATOM 673	CB	ASN	A	46	-6.649	0.025	8.142	1.00	0.00
ATOM 674	CG	ASN	A	46	-6.265	0.250	9.591	1.00	0.00

ATOM 675	OD1	ASN	A	46	-5.290	0.940	9.888	1.00	0.00
ATOM 676	ND2	ASN	A	46	-7.035	-0.332	10.504	1.00	0.00
ATOM 677	H	ASN	A	46	-6.792	-0.174	5.599	1.00	0.00
ATOM 678	HA	ASN	A	46	-5.729	1.803	7.380	1.00	0.00
ATOM 679	1HB	ASN	A	46	-7.655	0.389	7.995	1.00	0.00
ATOM 680	2HB	ASN	A	46	-6.621	-1.036	7.942	1.00	0.00
ATOM 681	1HD2	ASN	A	46	-7.795	-0.867	10.194	1.00	0.00
ATOM 682	2HD2	ASN	A	46	-6.811	-0.203	11.449	1.00	0.00
ATOM 683	N	ALA	A	47	-3.979	-0.885	6.693	1.00	0.00
ATOM 684	CA	ALA	A	47	-2.651	-1.480	6.775	1.00	0.00
ATOM 685	C	ALA	A	47	-1.616	-0.611	6.072	1.00	0.00
ATOM 686	O	ALA	A	47	-0.471	-0.512	6.513	1.00	0.00
ATOM 687	CB	ALA	A	47	-2.664	-2.879	6.179	1.00	0.00
ATOM 688	H	ALA	A	47	-4.663	-1.318	6.140	1.00	0.00
ATOM 689	HA	ALA	A	47	-2.388	-1.562	7.820	1.00	0.00
ATOM 690	1HB	ALA	A	47	-2.869	-3.601	6.957	1.00	0.00
ATOM 691	2HB	ALA	A	47	-1.701	-3.092	5.737	1.00	0.00
ATOM 692	3HB	ALA	A	47	-3.429	-2.941	5.420	1.00	0.00
ATOM 693	N	LEU	A	48	-2.025	0.019	4.975	1.00	0.00
ATOM 694	CA	LEU	A	48	-1.132	0.881	4.211	1.00	0.00
ATOM 695	C	LEU	A	48	-0.805	2.150	4.991	1.00	0.00
ATOM 696	O	LEU	A	48	0.289	2.701	4.870	1.00	0.00
ATOM 697	CB	LEU	A	48	-1.765	1.244	2.866	1.00	0.00
ATOM 698	CG	LEU	A	48	-1.536	0.227	1.747	1.00	0.00
ATOM 699	CD1	LEU	A	48	-2.514	0.459	0.606	1.00	0.00
ATOM 700	CD2	LEU	A	48	-0.102	0.301	1.246	1.00	0.00
ATOM 701	H	LEU	A	48	-2.950	-0.099	4.673	1.00	0.00

ATOM 702	HA	LEU A	48	-0.217	0.337	4.033	1.00	0.00
ATOM 703	1HB	LEU A	48	-2.830	1.355	3.012	1.00	0.00
ATOM 704	2HB	LEU A	48	-1.362	2.193	2.547	1.00	0.00
ATOM 705	HG	LEU A	48	-1.706	-0.768	2.133	1.00	0.00
ATOM 706	1HD1	LEU A	48	-2.038	0.213	-0.333	1.00	0.00
ATOM 707	2HD1	LEU A	48	-2.815	1.496	0.595	1.00	0.00
ATOM 708	3HD1	LEU A	48	-3.383	-0.167	0.743	1.00	0.00
ATOM 709	1HD2	LEU A	48	0.062	-0.469	0.507	1.00	0.00
ATOM 710	2HD2	LEU A	48	0.576	0.155	2.073	1.00	0.00
ATOM 711	3HD2	LEU A	48	0.075	1.270	0.802	1.00	0.00
ATOM 712	N	ASN A	49	-1.761	2.607	5.793	1.00	0.00
ATOM 713	CA	ASN A	49	-1.576	3.811	6.595	1.00	0.00
ATOM 714	C	ASN A	49	-0.423	3.635	7.577	1.00	0.00
ATOM 715	O	ASN A	49	0.565	4.368	7.528	1.00	0.00
ATOM 716	CB	ASN A	49	-2.861	4.147	7.353	1.00	0.00
ATOM 717	CG	ASN A	49	-3.136	5.638	7.393	1.00	0.00
ATOM 718	OD1	ASN A	49	-2.336	6.414	7.914	1.00	0.00
ATOM 719	ND2	ASN A	49	-4.273	6.044	6.841	1.00	0.00
ATOM 720	H	ASN A	49	-2.612	2.124	5.847	1.00	0.00
ATOM 721	HA	ASN A	49	-1.340	4.624	5.924	1.00	0.00
ATOM 722	1HB	ASN A	49	-3.695	3.659	6.871	1.00	0.00
ATOM 723	2HB	ASN A	49	-2.778	3.788	8.369	1.00	0.00
ATOM 724	1HD2	ASN A	49	-4.863	5.369	6.445	1.00	0.00
ATOM 725	2HD2	ASN A	49	-4.477	7.003	6.852	1.00	0.00
ATOM 726	N	GLN A	50	-0.555	2.658	8.468	1.00	0.00
ATOM 727	CA	GLN A	50	0.478	2.385	9.462	1.00	0.00
ATOM 728	C	GLN A	50	1.798	2.009	8.793	1.00	0.00



ATOM 729	O	GLN A	50	2.862	2.101	9.406	1.00	0.00
ATOM 730	CB	GLN A	50	0.029	1.262	10.399	1.00	0.00
ATOM 731	CG	GLN A	50	-0.205	-0.062	9.692	1.00	0.00
ATOM 732	CD	GLN A	50	-1.338	-0.859	10.308	1.00	0.00
ATOM 733	OE1	GLN A	50	-2.494	-0.731	9.903	1.00	0.00
ATOM 734	NE2	GLN A	50	-1.013	-1.686	11.294	1.00	0.00
ATOM 735	H	GLN A	50	-1.364	2.107	8.457	1.00	0.00
ATOM 736	HA	GLN A	50	0.625	3.285	10.039	1.00	0.00
ATOM 737	1HB	GLN A	50	0.789	1.114	11.153	1.00	0.00
ATOM 738	2HB	GLN A	50	-0.892	1.557	10.880	1.00	0.00
ATOM 739	1HG	GLN A	50	-0.444	0.132	8.658	1.00	0.00
ATOM 740	2HG	GLN A	50	0.700	-0.651	9.747	1.00	0.00
ATOM 741	1HE2	GLN A	50	-0.072	-1.736	11.564	1.00	0.00
ATOM 742	2HE2	GLN A	50	-1.727	-2.214	11.711	1.00	0.00
ATOM 743	N	LEU A	51	1.725	1.584	7.534	1.00	0.00
ATOM 744	CA	LEU A	51	2.917	1.196	6.789	1.00	0.00
ATOM 745	C	LEU A	51	3.693	2.425	6.324	1.00	0.00
ATOM 746	O	LEU A	51	4.923	2.415	6.282	1.00	0.00
ATOM 747	CB	LEU A	51	2.531	0.336	5.584	1.00	0.00
ATOM 748	CG	LEU A	51	3.702	-0.340	4.868	1.00	0.00
ATOM 749	CD1	LEU A	51	3.258	-1.653	4.242	1.00	0.00
ATOM 750	CD2	LEU A	51	4.283	0.586	3.809	1.00	0.00
ATOM 751	H	LEU A	51	0.850	1.531	7.096	1.00	0.00
ATOM 752	HA	LEU A	51	3.545	0.616	7.448	1.00	0.00
ATOM 753	1HB	LEU A	51	1.850	-0.433	5.921	1.00	0.00
ATOM 754	2HB	LEU A	51	2.016	0.962	4.871	1.00	0.00
ATOM 755	HG	LEU A	51	4.478	-0.556	5.586	1.00	0.00

ATOM 756	1HD1	LEU	A	51	4.052	-2.380	4.332	1.00	0.00
ATOM 757	2HD1	LEU	A	51	3.030	-1.495	3.199	1.00	0.00
ATOM 758	3HD1	LEU	A	51	2.379	-2.016	4.754	1.00	0.00
ATOM 759	1HD2	LEU	A	51	4.805	1.400	4.290	1.00	0.00
ATOM 760	2HD2	LEU	A	51	3.485	0.981	3.199	1.00	0.00
ATOM 761	3HD2	LEU	A	51	4.972	0.033	3.188	1.00	0.00
ATOM 762	N	PHE	A	52	2.966	3.481	5.976	1.00	0.00
ATOM 763	CA	PHE	A	52	3.585	4.717	5.512	1.00	0.00
ATOM 764	C	PHE	A	52	4.380	5.384	6.631	1.00	0.00
ATOM 765	O	PHE	A	52	5.559	5.696	6.465	1.00	0.00
ATOM 766	CB	PHE	A	52	2.519	5.678	4.984	1.00	0.00
ATOM 767	CG	PHE	A	52	1.694	5.104	3.867	1.00	0.00
ATOM 768	CD1	PHE	A	52	2.297	4.413	2.828	1.00	0.00
ATOM 769	CD2	PHE	A	52	0.317	5.255	3.857	1.00	0.00
ATOM 770	CE1	PHE	A	52	1.541	3.884	1.799	1.00	0.00
ATOM 771	CE2	PHE	A	52	-0.444	4.728	2.831	1.00	0.00
ATOM 772	CZ	PHE	A	52	0.169	4.041	1.801	1.00	0.00
ATOM 773	H	PHE	A	52	1.989	3.428	6.030	1.00	0.00
ATOM 774	HA	PHE	A	52	4.260	4.467	4.707	1.00	0.00
ATOM 775	1HB	PHE	A	52	1.849	5.940	5.789	1.00	0.00
ATOM 776	2HB	PHE	A	52	3.001	6.573	4.616	1.00	0.00
ATOM 777	HD1	PHE	A	52	3.370	4.290	2.825	1.00	0.00
ATOM 778	HD2	PHE	A	52	-0.163	5.792	4.662	1.00	0.00
ATOM 779	HE1	PHE	A	52	2.023	3.348	0.995	1.00	0.00
ATOM 780	HE2	PHE	A	52	-1.517	4.852	2.835	1.00	0.00
ATOM 781	HZ	PHE	A	52	-0.424	3.627	0.999	1.00	0.00
ATOM 782	N	ARG	A	53	3.726	5.603	7.767	1.00	0.00

ATOM 783	CA	ARG A	53	4.374	6.235	8.913	1.00	0.00
ATOM 784	C	ARG A	53	5.634	5.476	9.321	1.00	0.00
ATOM 785	O	ARG A	53	6.538	6.041	9.936	1.00	0.00
ATOM 786	CB	ARG A	53	3.406	6.312	10.095	1.00	0.00
ATOM 787	CG	ARG A	53	2.644	5.019	10.345	1.00	0.00
ATOM 788	CD	ARG A	53	3.021	4.396	11.680	1.00	0.00
ATOM 789	NE	ARG A	53	1.899	3.685	12.289	1.00	0.00
ATOM 790	CZ	ARG A	53	2.022	2.849	13.318	1.00	0.00
ATOM 791	NH1	ARG A	53	3.212	2.619	13.857	1.00	0.00
ATOM 792	NH2	ARG A	53	0.950	2.243	13.809	1.00	0.00
ATOM 793	H	ARG A	53	2.787	5.333	7.838	1.00	0.00
ATOM 794	HA	ARG A	53	4.651	7.237	8.622	1.00	0.00
ATOM 795	1HB	ARG A	53	3.964	6.556	10.987	1.00	0.00
ATOM 796	2HB	ARG A	53	2.687	7.096	9.906	1.00	0.00
ATOM 797	1HG	ARG A	53	1.586	5.230	10.344	1.00	0.00
ATOM 798	2HG	ARG A	53	2.874	4.321	9.554	1.00	0.00
ATOM 799	1HD	ARG A	53	3.833	3.702	11.522	1.00	0.00
ATOM 800	2HD	ARG A	53	3.344	5.180	12.349	1.00	0.00
ATOM 801	HE	ARG A	53	1.008	3.837	11.910	1.00	0.00
ATOM 802	1HH1	ARG A	53	4.024	3.073	13.491	1.00	0.00
ATOM 803	2HH1	ARG A	53	3.297	1.991	14.630	1.00	0.00
ATOM 804	1HH2	ARG A	53	0.050	2.413	13.408	1.00	0.00
ATOM 805	2HH2	ARG A	53	1.041	1.616	14.583	1.00	0.00
ATOM 806	N	ASN A	54	5.688	4.192	8.977	1.00	0.00
ATOM 807	CA	ASN A	54	6.839	3.361	9.308	1.00	0.00
ATOM 808	C	ASN A	54	7.843	3.333	8.159	1.00	0.00
ATOM 809	O	ASN A	54	9.040	3.145	8.372	1.00	0.00

ATOM 810	CB	ASN A	54	6.387	1.938	9.641	1.00	0.00
ATOM 811	CG	ASN A	54	5.896	1.806	11.070	1.00	0.00
ATOM 812	OD1	ASN A	54	6.662	1.975	12.019	1.00	0.00
ATOM 813	ND2	ASN A	54	4.613	1.505	11.228	1.00	0.00
ATOM 814	H	ASN A	54	4.937	3.795	8.488	1.00	0.00
ATOM 815	HA	ASN A	54	7.318	3.789	10.177	1.00	0.00
ATOM 816	1HB	ASN A	54	5.583	1.658	8.978	1.00	0.00
ATOM 817	2HB	ASN A	54	7.218	1.261	9.501	1.00	0.00
ATOM 818	1HD2	ASN A	54	4.063	1.386	10.427	1.00	0.00
ATOM 819	2HD2	ASN A	54	4.269	1.414	12.141	1.00	0.00
ATOM 820	N	SER A	55	7.346	3.519	6.938	1.00	0.00
ATOM 821	CA	SER A	55	8.201	3.514	5.756	1.00	0.00
ATOM 822	C	SER A	55	9.273	4.594	5.853	1.00	0.00
ATOM 823	O	SER A	55	9.238	5.440	6.747	1.00	0.00
ATOM 824	CB	SER A	55	7.362	3.724	4.495	1.00	0.00
ATOM 825	OG	SER A	55	6.854	5.045	4.433	1.00	0.00
ATOM 826	H	SER A	55	6.383	3.663	6.831	1.00	0.00
ATOM 827	HA	SER A	55	8.683	2.550	5.701	1.00	0.00
ATOM 828	1HB	SER A	55	7.976	3.547	3.624	1.00	0.00
ATOM 829	2HB	SER A	55	6.533	3.032	4.497	1.00	0.00
ATOM 830	HG	SER A	55	7.539	5.637	4.114	1.00	0.00
ATOM 831	N	SER A	56	10.226	4.558	4.929	1.00	0.00
ATOM 832	CA	SER A	56	11.311	5.533	4.908	1.00	0.00
ATOM 833	C	SER A	56	10.799	6.913	4.509	1.00	0.00
ATOM 834	O	SER A	56	11.345	7.934	4.925	1.00	0.00
ATOM 835	CB	SER A	56	12.409	5.085	3.941	1.00	0.00
ATOM 836	OG	SER A	56	13.367	6.111	3.747	1.00	0.00

ATOM 837	H	SER A	56	10.200	3.858	4.242	1.00	0.00
ATOM 838	HA	SER A	56	11.723	5.590	5.905	1.00	0.00
ATOM 839	1HB	SER A	56	12.907	4.216	4.344	1.00	0.00
ATOM 840	2HB	SER A	56	11.966	4.837	2.988	1.00	0.00
ATOM 841	HG	SER A	56	13.741	6.364	4.594	1.00	0.00
ATOM 842	N	ILE A	57	9.745	6.937	3.699	1.00	0.00
ATOM 843	CA	ILE A	57	9.159	8.192	3.244	1.00	0.00
ATOM 844	C	ILE A	57	8.012	8.623	4.154	1.00	0.00
ATOM 845	O	ILE A	57	6.943	9.014	3.684	1.00	0.00
ATOM 846	CB	ILE A	57	8.642	8.078	1.796	1.00	0.00
ATOM 847	CG1	ILE A	57	7.594	6.968	1.691	1.00	0.00
ATOM 848	CG2	ILE A	57	9.796	7.817	0.841	1.00	0.00
ATOM 849	CD1	ILE A	57	6.915	6.906	0.340	1.00	0.00
ATOM 850	H	ILE A	57	9.351	6.091	3.401	1.00	0.00
ATOM 851	HA	ILE A	57	9.930	8.948	3.270	1.00	0.00
ATOM 852	HB	ILE A	57	8.187	9.018	1.525	1.00	0.00
ATOM 853	1HG1	ILE A	57	8.070	6.014	1.866	1.00	0.00
ATOM 854	2HG1	ILE A	57	6.832	7.128	2.439	1.00	0.00
ATOM 855	1HG2	ILE A	57	9.431	7.294	-0.030	1.00	0.00
ATOM 856	2HG2	ILE A	57	10.543	7.215	1.335	1.00	0.00
ATOM 857	3HG2	ILE A	57	10.232	8.758	0.539	1.00	0.00
ATOM 858	1HD1	ILE A	57	7.418	6.183	-0.283	1.00	0.00
ATOM 859	2HD1	ILE A	57	6.957	7.878	-0.129	1.00	0.00
ATOM 860	3HD1	ILE A	57	5.882	6.614	0.469	1.00	0.00
ATOM 861	N	LYS A	58	8.245	8.552	5.461	1.00	0.00
ATOM 862	CA	LYS A	58	7.233	8.935	6.441	1.00	0.00
ATOM 863	C	LYS A	58	7.312	10.429	6.747	1.00	0.00

ATOM 864	O	LYS A	58	7.416	10.831	7.906	1.00	0.00
ATOM 865	CB	LYS A	58	7.406	8.125	7.728	1.00	0.00
ATOM 866	CG	LYS A	58	8.732	8.370	8.432	1.00	0.00
ATOM 867	CD	LYS A	58	9.025	7.289	9.460	1.00	0.00
ATOM 868	CE	LYS A	58	10.423	7.432	10.037	1.00	0.00
ATOM 869	NZ	LYS A	58	10.593	8.719	10.769	1.00	0.00
ATOM 870	H	LYS A	58	9.117	8.234	5.774	1.00	0.00
ATOM 871	HA	LYS A	58	6.265	8.719	6.016	1.00	0.00
ATOM 872	1HB	LYS A	58	6.609	8.379	8.409	1.00	0.00
ATOM 873	2HB	LYS A	58	7.341	7.074	7.487	1.00	0.00
ATOM 874	1HG	LYS A	58	9.523	8.378	7.697	1.00	0.00
ATOM 875	2HG	LYS A	58	8.692	9.327	8.931	1.00	0.00
ATOM 876	1HD	LYS A	58	8.306	7.364	10.262	1.00	0.00
ATOM 877	2HD	LYS A	58	8.939	6.322	8.985	1.00	0.00
ATOM 878	1HE	LYS A	58	10.603	6.615	10.719	1.00	0.00
ATOM 879	2HE	LYS A	58	11.139	7.390	9.230	1.00	0.00
ATOM 880	1HZ	LYS A	58	9.809	8.855	11.438	1.00	0.00
ATOM 881	2HZ	LYS A	58	10.603	9.513	10.097	1.00	0.00
ATOM 882	3HZ	LYS A	58	11.490	8.714	11.296	1.00	0.00
ATOM 883	N	SER A	59	7.258	11.247	5.701	1.00	0.00
ATOM 884	CA	SER A	59	7.322	12.696	5.858	1.00	0.00
ATOM 885	C	SER A	59	6.600	13.397	4.712	1.00	0.00
ATOM 886	O	SER A	59	5.809	14.315	4.933	1.00	0.00
ATOM 887	CB	SER A	59	8.779	13.159	5.921	1.00	0.00
ATOM 888	OG	SER A	59	9.176	13.414	7.259	1.00	0.00
ATOM 889	H	SER A	59	7.174	10.867	4.802	1.00	0.00
ATOM 890	HA	SER A	59	6.832	12.949	6.786	1.00	0.00

ATOM 891	1HB	SER A	59	9.417	12.390	5.511	1.00	0.00
ATOM 892	2HB	SER A	59	8.893	14.066	5.346	1.00	0.00
ATOM 893	HG	SER A	59	9.990	13.921	7.259	1.00	0.00
ATOM 894	N	TYR A	60	6.877	12.959	3.488	1.00	0.00
ATOM 895	CA	TYR A	60	6.254	13.544	2.308	1.00	0.00
ATOM 896	C	TYR A	60	4.992	12.778	1.922	1.00	0.00
ATOM 897	O	TYR A	60	4.045	13.352	1.385	1.00	0.00
ATOM 898	CB	TYR A	60	7.238	13.551	1.136	1.00	0.00
ATOM 899	CG	TYR A	60	8.559	14.211	1.458	1.00	0.00
ATOM 900	CD1	TYR A	60	9.730	13.468	1.528	1.00	0.00
ATOM 901	CD2	TYR A	60	8.635	15.579	1.694	1.00	0.00
ATOM 902	CE1	TYR A	60	10.940	14.067	1.821	1.00	0.00
ATOM 903	CE2	TYR A	60	9.842	16.185	1.988	1.00	0.00
ATOM 904	CZ	TYR A	60	10.991	15.426	2.051	1.00	0.00
ATOM 905	OH	TYR A	60	12.193	16.027	2.343	1.00	0.00
ATOM 906	H	TYR A	60	7.516	12.224	3.377	1.00	0.00
ATOM 907	HA	TYR A	60	5.985	14.562	2.545	1.00	0.00
ATOM 908	1HB	TYR A	60	7.441	12.533	0.839	1.00	0.00
ATOM 909	2HB	TYR A	60	6.795	14.081	0.306	1.00	0.00
ATOM 910	HD1	TYR A	60	9.688	12.404	1.347	1.00	0.00
ATOM 911	HD2	TYR A	60	7.734	16.171	1.644	1.00	0.00
ATOM 912	HE1	TYR A	60	11.840	13.472	1.870	1.00	0.00
ATOM 913	HE2	TYR A	60	9.880	17.250	2.168	1.00	0.00
ATOM 914	HH	TYR A	60	12.638	16.268	1.527	1.00	0.00
ATOM 915	N	PHE A	61	4.987	11.479	2.202	1.00	0.00
ATOM 916	CA	PHE A	61	3.841	10.634	1.885	1.00	0.00
ATOM 917	C	PHE A	61	2.680	10.914	2.832	1.00	0.00

ATOM 918	O	PHE A	61	2.800	10.744	4.045	1.00	0.00
ATOM 919	CB	PHE A	61	4.234	9.157	1.965	1.00	0.00
ATOM 920	CG	PHE A	61	3.215	8.231	1.363	1.00	0.00
ATOM 921	CD1	PHE A	61	3.475	7.572	0.173	1.00	0.00
ATOM 922	CD2	PHE A	61	1.996	8.022	1.990	1.00	0.00
ATOM 923	CE1	PHE A	61	2.539	6.720	-0.382	1.00	0.00
ATOM 924	CE2	PHE A	61	1.057	7.171	1.439	1.00	0.00
ATOM 925	CZ	PHE A	61	1.329	6.519	0.252	1.00	0.00
ATOM 926	H	PHE A	61	5.772	11.079	2.630	1.00	0.00
ATOM 927	HA	PHE A	61	3.532	10.860	0.876	1.00	0.00
ATOM 928	1HB	PHE A	61	5.166	9.010	1.439	1.00	0.00
ATOM 929	2HB	PHE A	61	4.364	8.882	3.002	1.00	0.00
ATOM 930	HD1	PHE A	61	4.422	7.728	-0.322	1.00	0.00
ATOM 931	HD2	PHE A	61	1.782	8.530	2.918	1.00	0.00
ATOM 932	HE1	PHE A	61	2.754	6.212	-1.310	1.00	0.00
ATOM 933	HE2	PHE A	61	0.111	7.014	1.936	1.00	0.00
ATOM 934	HZ	PHE A	61	0.596	5.853	-0.180	1.00	0.00
ATOM 935	N	SER A	62	1.554	11.345	2.269	1.00	0.00
ATOM 936	CA	SER A	62	0.371	11.650	3.063	1.00	0.00
ATOM 937	C	SER A	62	-0.409	10.380	3.388	1.00	0.00
ATOM 938	O	SER A	62	-0.388	9.900	4.521	1.00	0.00
ATOM 939	CB	SER A	62	-0.528	12.640	2.320	1.00	0.00
ATOM 940	OG	SER A	62	-0.244	13.974	2.703	1.00	0.00
ATOM 941	H	SER A	62	1.521	11.462	1.297	1.00	0.00
ATOM 942	HA	SER A	62	0.700	12.101	3.987	1.00	0.00
ATOM 943	1HB	SER A	62	-0.364	12.543	1.257	1.00	0.00
ATOM 944	2HB	SER A	62	-1.562	12.424	2.546	1.00	0.00



ATOM 945	HG	SER A	62	-0.906	14.275	3.330	1.00	0.00
ATOM 946	N	ASP A	63	-1.096	9.841	2.386	1.00	0.00
ATOM 947	CA	ASP A	63	-1.882	8.626	2.567	1.00	0.00
ATOM 948	C	ASP A	63	-2.167	7.956	1.225	1.00	0.00
ATOM 949	O	ASP A	63	-1.666	8.387	0.186	1.00	0.00
ATOM 950	CB	ASP A	63	-3.198	8.947	3.278	1.00	0.00
ATOM 951	CG	ASP A	63	-3.597	7.871	4.269	1.00	0.00
ATOM 952	OD1	ASP A	63	-3.810	8.204	5.454	1.00	0.00
ATOM 953	OD2	ASP A	63	-3.696	6.694	3.861	1.00	0.00
ATOM 954	H	ASP A	63	-1.073	10.269	1.505	1.00	0.00
ATOM 955	HA	ASP A	63	-1.308	7.948	3.179	1.00	0.00
ATOM 956	1HB	ASP A	63	-3.092	9.880	3.813	1.00	0.00
ATOM 957	2HB	ASP A	63	-3.984	9.043	2.545	1.00	0.00
ATOM 958	N	CYS A	64	-2.975	6.902	1.257	1.00	0.00
ATOM 959	CA	CYS A	64	-3.327	6.172	0.045	1.00	0.00
ATOM 960	C	CYS A	64	-4.829	6.235	-0.211	1.00	0.00
ATOM 961	O	CYS A	64	-5.615	6.493	0.703	1.00	0.00
ATOM 962	CB	CYS A	64	-2.875	4.715	0.153	1.00	0.00
ATOM 963	SG	CYS A	64	-2.129	4.058	-1.357	1.00	0.00
ATOM 964	H	CYS A	64	-3.343	6.607	2.116	1.00	0.00
ATOM 965	HA	CYS A	64	-2.814	6.638	-0.784	1.00	0.00
ATOM 966	1HB	CYS A	64	-2.143	4.631	0.943	1.00	0.00
ATOM 967	2HB	CYS A	64	-3.728	4.097	0.395	1.00	0.00
ATOM 968	HG	CYS A	64	-2.281	3.110	-1.374	1.00	0.00
ATOM 969	N	GLN A	65	-5.224	5.996	-1.457	1.00	0.00
ATOM 970	CA	GLN A	65	-6.633	6.026	-1.831	1.00	0.00
ATOM 971	C	GLN A	65	-7.028	4.747	-2.563	1.00	0.00

ATOM 972	O	GLN A	65	-6.741	4.585	-3.748	1.00	0.00
ATOM 973	CB	GLN A	65	-6.923	7.242	-2.714	1.00	0.00
ATOM 974	CG	GLN A	65	-8.396	7.613	-2.772	1.00	0.00
ATOM 975	CD	GLN A	65	-8.635	8.945	-3.454	1.00	0.00
ATOM 976	OE1	GLN A	65	-8.762	9.979	-2.797	1.00	0.00
ATOM 977	NE2	GLN A	65	-8.698	8.928	-4.781	1.00	0.00
ATOM 978	H	GLN A	65	-4.552	5.796	-2.141	1.00	0.00
ATOM 979	HA	GLN A	65	-7.215	6.103	-0.926	1.00	0.00
ATOM 980	1HB	GLN A	65	-6.375	8.090	-2.330	1.00	0.00
ATOM 981	2HB	GLN A	65	-6.587	7.031	-3.718	1.00	0.00
ATOM 982	1HG	GLN A	65	-8.926	6.847	-3.318	1.00	0.00
ATOM 983	2HG	GLN A	65	-8.780	7.666	-1.765	1.00	0.00
ATOM 984	1HE2	GLN A	65	-8.589	8.069	-5.239	1.00	0.00
ATOM 985	2HE2	GLN A	65	-8.853	9.777	-5.248	1.00	0.00
ATOM 986	N	VAL A	66	-7.688	3.842	-1.848	1.00	0.00
ATOM 987	CA	VAL A	66	-8.122	2.579	-2.430	1.00	0.00
ATOM 988	C	VAL A	66	-9.300	2.788	-3.378	1.00	0.00
ATOM 989	O	VAL A	66	-10.451	2.869	-2.949	1.00	0.00
ATOM 990	CB	VAL A	66	-8.518	1.564	-1.338	1.00	0.00
ATOM 991	CG1	VAL A	66	-9.645	2.114	-0.476	1.00	0.00
ATOM 992	CG2	VAL A	66	-8.911	0.231	-1.958	1.00	0.00
ATOM 993	H	VAL A	66	-7.887	4.029	-0.907	1.00	0.00
ATOM 994	HA	VAL A	66	-7.293	2.168	-2.988	1.00	0.00
ATOM 995	HB	VAL A	66	-7.660	1.400	-0.701	1.00	0.00
ATOM 996	1HG1	VAL A	66	-9.686	3.188	-0.581	1.00	0.00
ATOM 997	2HG1	VAL A	66	-9.465	1.859	0.558	1.00	0.00
ATOM 998	3HG1	VAL A	66	-10.583	1.684	-0.795	1.00	0.00

ATOM 999	1HG2	VAL	A	66	-8.507	-0.575	-1.364	1.00	0.00
ATOM 1000	2HG2	VAL	A	66	-8.518	0.170	-2.961	1.00	0.00
ATOM 1001	3HG2	VAL	A	66	-9.988	0.152	-1.987	1.00	0.00
ATOM 1002	N	LEU	A	67	-9.001	2.876	-4.670	1.00	0.00
ATOM 1003	CA	LEU	A	67	-10.033	3.078	-5.681	1.00	0.00
ATOM 1004	C	LEU	A	67	-11.022	1.917	-5.686	1.00	0.00
ATOM 1005	O	LEU	A	67	-12.205	2.096	-5.394	1.00	0.00
ATOM 1006	CB	LEU	A	67	-9.399	3.228	-7.065	1.00	0.00
ATOM 1007	CG	LEU	A	67	-8.237	4.220	-7.140	1.00	0.00
ATOM 1008	CD1	LEU	A	67	-7.719	4.328	-8.566	1.00	0.00
ATOM 1009	CD2	LEU	A	67	-8.667	5.584	-6.622	1.00	0.00
ATOM 1010	H	LEU	A	67	-8.065	2.806	-4.951	1.00	0.00
ATOM 1011	HA	LEU	A	67	-10.563	3.986	-5.437	1.00	0.00
ATOM 1012	1HB	LEU	A	67	-9.040	2.259	-7.379	1.00	0.00
ATOM 1013	2HB	LEU	A	67	-10.164	3.553	-7.755	1.00	0.00
ATOM 1014	HG	LEU	A	67	-7.428	3.864	-6.518	1.00	0.00
ATOM 1015	1HD1	LEU	A	67	-6.901	5.032	-8.600	1.00	0.00
ATOM 1016	2HD1	LEU	A	67	-8.514	4.669	-9.212	1.00	0.00
ATOM 1017	3HD1	LEU	A	67	-7.374	3.360	-8.899	1.00	0.00
ATOM 1018	1HD2	LEU	A	67	-9.300	6.064	-7.354	1.00	0.00
ATOM 1019	2HD2	LEU	A	67	-7.794	6.194	-6.447	1.00	0.00
ATOM 1020	3HD2	LEU	A	67	-9.213	5.462	-5.698	1.00	0.00
ATOM 1021	N	ALA	A	68	-10.531	0.728	-6.020	1.00	0.00
ATOM 1022	CA	ALA	A	68	-11.374	-0.462	-6.064	1.00	0.00
ATOM 1023	C	ALA	A	68	-10.532	-1.723	-6.234	1.00	0.00
ATOM 1024	O	ALA	A	68	-9.315	-1.695	-6.057	1.00	0.00
ATOM 1025	CB	ALA	A	68	-12.391	-0.344	-7.190	1.00	0.00

ATOM	1026	H	ALA	A	68	-9.581	0.650	-6.243	1.00	0.00
ATOM	1027	HA	ALA	A	68	-11.911	-0.523	-5.129	1.00	0.00
ATOM	1028	1HB	ALA	A	68	-13.165	-1.085	-7.054	1.00	0.00
ATOM	1029	2HB	ALA	A	68	-11.899	-0.507	-8.137	1.00	0.00
ATOM	1030	3HB	ALA	A	68	-12.830	0.642	-7.177	1.00	0.00
ATOM	1031	N	PHE	A	69	-11.189	-2.825	-6.579	1.00	0.00
ATOM	1032	CA	PHE	A	69	-10.501	-4.096	-6.774	1.00	0.00
ATOM	1033	C	PHE	A	69	-10.730	-4.630	-8.185	1.00	0.00
ATOM	1034	O	PHE	A	69	-11.799	-4.437	-8.764	1.00	0.00
ATOM	1035	CB	PHE	A	69	-10.978	-5.121	-5.744	1.00	0.00
ATOM	1036	CG	PHE	A	69	-10.690	-4.726	-4.324	1.00	0.00
ATOM	1037	CD1	PHE	A	69	-11.703	-4.261	-3.502	1.00	0.00
ATOM	1038	CD2	PHE	A	69	-9.406	-4.817	-3.813	1.00	0.00
ATOM	1039	CE1	PHE	A	69	-11.441	-3.895	-2.195	1.00	0.00
ATOM	1040	CE2	PHE	A	69	-9.137	-4.454	-2.507	1.00	0.00
ATOM	1041	CZ	PHE	A	69	-10.157	-3.991	-1.697	1.00	0.00
ATOM	1042	H	PHE	A	69	-12.159	-2.784	-6.707	1.00	0.00
ATOM	1043	HA	PHE	A	69	-9.443	-3.926	-6.635	1.00	0.00
ATOM	1044	1HB	PHE	A	69	-12.046	-5.250	-5.842	1.00	0.00
ATOM	1045	2HB	PHE	A	69	-10.489	-6.066	-5.933	1.00	0.00
ATOM	1046	HD1	PHE	A	69	-12.708	-4.186	-3.890	1.00	0.00
ATOM	1047	HD2	PHE	A	69	-8.608	-5.179	-4.445	1.00	0.00
ATOM	1048	HE1	PHE	A	69	-12.241	-3.534	-1.564	1.00	0.00
ATOM	1049	HE2	PHE	A	69	-8.132	-4.529	-2.119	1.00	0.00
ATOM	1050	HZ	PHE	A	69	-9.950	-3.706	-0.676	1.00	0.00
ATOM	1051	N	ARG	A	70	-9.721	-5.300	-8.732	1.00	0.00
ATOM	1052	CA	ARG	A	70	-9.814	-5.861	-10.075	1.00	0.00

ATOM 1053	C	ARG A	70	-9.708	-7.381	-10.039	1.00	0.00
ATOM 1054	O	ARG A	70	-9.078	-7.948	-9.146	1.00	0.00
ATOM 1055	CB	ARG A	70	-8.716	-5.281	-10.969	1.00	0.00
ATOM 1056	CG	ARG A	70	-8.808	-3.775	-11.147	1.00	0.00
ATOM 1057	CD	ARG A	70	-9.775	-3.402	-12.259	1.00	0.00
ATOM 1058	NE	ARG A	70	-9.496	-4.131	-13.494	1.00	0.00
ATOM 1059	CZ	ARG A	70	-8.449	-3.887	-14.279	1.00	0.00
ATOM 1060	NH1	ARG A	70	-7.579	-2.935	-13.960	1.00	0.00
ATOM 1061	NH2	ARG A	70	-8.270	-4.596	-15.385	1.00	0.00
ATOM 1062	H	ARG A	70	-8.894	-5.420	-8.220	1.00	0.00
ATOM 1063	HA	ARG A	70	-10.777	-5.588	-10.481	1.00	0.00
ATOM 1064	1HB	ARG A	70	-7.755	-5.513	-10.535	1.00	0.00
ATOM 1065	2HB	ARG A	70	-8.781	-5.742	-11.943	1.00	0.00
ATOM 1066	1HG	ARG A	70	-9.151	-3.333	-10.223	1.00	0.00
ATOM 1067	2HG	ARG A	70	-7.828	-3.391	-11.390	1.00	0.00
ATOM 1068	1HD	ARG A	70	-10.780	-3.632	-11.937	1.00	0.00
ATOM 1069	2HD	ARG A	70	-9.692	-2.342	-12.450	1.00	0.00
ATOM 1070	HE	ARG A	70	-10.122	-4.838	-13.754	1.00	0.00
ATOM 1071	1HH1	ARG A	70	-7.708	-2.398	-13.127	1.00	0.00
ATOM 1072	2HH1	ARG A	70	-6.794	-2.758	-14.553	1.00	0.00
ATOM 1073	1HH2	ARG A	70	-8.922	-5.313	-15.629	1.00	0.00
ATOM 1074	2HH2	ARG A	70	-7.484	-4.412	-15.975	1.00	0.00
ATOM 1075	N	SER A	71	-10.326	-8.036	-11.016	1.00	0.00
ATOM 1076	CA	SER A	71	-10.301	-9.492	-11.097	1.00	0.00
ATOM 1077	C	SER A	71	-9.286	-9.962	-12.135	1.00	0.00
ATOM 1078	O	SER A	71	-9.564	-9.956	-13.334	1.00	0.00
ATOM 1079	CB	SER A	71	-11.690	-10.028	-11.445	1.00	0.00

ATOM 1080	OG	SER A	71	-11.654	-11.425	-11.682	1.00	0.00
ATOM 1081	H	SER A	71	-10.812	-7.528	-11.699	1.00	0.00
ATOM 1082	HA	SER A	71	-10.009	-9.873	-10.129	1.00	0.00
ATOM 1083	1HB	SER A	71	-12.365	-9.833	-10.624	1.00	0.00
ATOM 1084	2HB	SER A	71	-12.052	-9.534	-12.334	1.00	0.00
ATOM 1085	HG	SER A	71	-11.205	-11.862	-10.954	1.00	0.00
ATOM 1086	N	VAL A	72	-8.111	-10.366	-11.667	1.00	0.00
ATOM 1087	CA	VAL A	72	-7.055	-10.837	-12.553	1.00	0.00
ATOM 1088	C	VAL A	72	-7.516	-12.042	-13.367	1.00	0.00
ATOM 1089	O	VAL A	72	-8.401	-12.786	-12.945	1.00	0.00
ATOM 1090	CB	VAL A	72	-5.787	-11.218	-11.766	1.00	0.00
ATOM 1091	CG1	VAL A	72	-5.186	-9.992	-11.096	1.00	0.00
ATOM 1092	CG2	VAL A	72	-6.100	-12.296	-10.740	1.00	0.00
ATOM 1093	H	VAL A	72	-7.949	-10.345	-10.699	1.00	0.00
ATOM 1094	HA	VAL A	72	-6.804	-10.034	-13.230	1.00	0.00
ATOM 1095	HB	VAL A	72	-5.061	-11.613	-12.461	1.00	0.00
ATOM 1096	1HG1	VAL A	72	-4.772	-10.272	-10.138	1.00	0.00
ATOM 1097	2HG1	VAL A	72	-5.955	-9.248	-10.952	1.00	0.00
ATOM 1098	3HG1	VAL A	72	-4.404	-9.586	-11.721	1.00	0.00
ATOM 1099	1HG2	VAL A	72	-6.575	-11.848	-9.880	1.00	0.00
ATOM 1100	2HG2	VAL A	72	-5.184	-12.779	-10.433	1.00	0.00
ATOM 1101	3HG2	VAL A	72	-6.763	-13.028	-11.178	1.00	0.00
ATOM 1102	N	SER A	73	-6.910	-12.228	-14.535	1.00	0.00
ATOM 1103	CA	SER A	73	-7.258	-13.342	-15.409	1.00	0.00
ATOM 1104	C	SER A	73	-6.553	-14.621	-14.968	1.00	0.00
ATOM 1105	O	SER A	73	-5.916	-14.659	-13.916	1.00	0.00
ATOM 1106	CB	SER A	73	-6.891	-13.016	-16.857	1.00	0.00

ATOM 1107	OG	SER A	73	-7.360	-11.731	-17.227	1.00	0.00
ATOM 1108	H	SER A	73	-6.212	-11.600	-14.817	1.00	0.00
ATOM 1109	HA	SER A	73	-8.326	-13.494	-15.343	1.00	0.00
ATOM 1110	1HB	SER A	73	-5.817	-13.040	-16.968	1.00	0.00
ATOM 1111	2HB	SER A	73	-7.337	-13.751	-17.513	1.00	0.00
ATOM 1112	N	ASN A	74	-6.672	-15.666	-15.783	1.00	0.00
ATOM 1113	CA	ASN A	74	-6.046	-16.951	-15.483	1.00	0.00
ATOM 1114	C	ASN A	74	-6.721	-17.622	-14.289	1.00	0.00
ATOM 1115	O	ASN A	74	-7.358	-18.665	-14.429	1.00	0.00
ATOM 1116	CB	ASN A	74	-4.552	-16.770	-15.205	1.00	0.00
ATOM 1117	CG	ASN A	74	-3.761	-18.041	-15.440	1.00	0.00
ATOM 1118	OD1	ASN A	74	-3.939	-18.717	-16.453	1.00	0.00
ATOM 1119	ND2	ASN A	74	-2.881	-18.373	-14.503	1.00	0.00
ATOM 1120	H	ASN A	74	-7.193	-15.571	-16.607	1.00	0.00
ATOM 1121	HA	ASN A	74	-6.166	-17.585	-16.349	1.00	0.00
ATOM 1122	1HB	ASN A	74	-4.163	-16.000	-15.854	1.00	0.00
ATOM 1123	2HB	ASN A	74	-4.418	-16.469	-14.176	1.00	0.00
ATOM 1124	1HD2	ASN A	74	-2.794	-17.787	-13.722	1.00	0.00
ATOM 1125	2HD2	ASN A	74	-2.356	-19.191	-14.630	1.00	0.00
ATOM 1126	N	ASN A	75	-6.575	-17.015	-13.115	1.00	0.00
ATOM 1127	CA	ASN A	75	-7.169	-17.554	-11.898	1.00	0.00
ATOM 1128	C	ASN A	75	-8.058	-16.513	-11.222	1.00	0.00
ATOM 1129	O	ASN A	75	-7.694	-15.342	-11.125	1.00	0.00
ATOM 1130	CB	ASN A	75	-6.075	-18.016	-10.933	1.00	0.00
ATOM 1131	CG	ASN A	75	-6.028	-19.525	-10.791	1.00	0.00
ATOM 1132	OD1	ASN A	75	-5.101	-20.177	-11.273	1.00	0.00
ATOM 1133	ND2	ASN A	75	-7.031	-20.088	-10.128	1.00	0.00

ATOM 1134	H	ASN A	75	-6.055	-16.186	-13.067	1.00	0.00
ATOM 1135	HA	ASN A	75	-7.776	-18.403	-12.173	1.00	0.00
ATOM 1136	1HB	ASN A	75	-5.116	-17.679	-11.298	1.00	0.00
ATOM 1137	2HB	ASN A	75	-6.254	-17.587	-9.957	1.00	0.00
ATOM 1138	1HD2	ASN A	75	-7.735	-19.507	-9.772	1.00	0.00
ATOM 1139	2HD2	ASN A	75	-7.026	-21.062	-10.021	1.00	0.00
ATOM 1140	N	ASN A	76	-9.223	-16.951	-10.756	1.00	0.00
ATOM 1141	CA	ASN A	76	-10.162	-16.058	-10.089	1.00	0.00
ATOM 1142	C	ASN A	76	-10.048	-16.180	-8.572	1.00	0.00
ATOM 1143	O	ASN A	76	-11.021	-15.971	-7.848	1.00	0.00
ATOM 1144	CB	ASN A	76	-11.595	-16.364	-10.534	1.00	0.00
ATOM 1145	CG	ASN A	76	-12.094	-15.389	-11.582	1.00	0.00
ATOM 1146	OD1	ASN A	76	-13.081	-14.685	-11.370	1.00	0.00
ATOM 1147	ND2	ASN A	76	-11.412	-15.343	-12.721	1.00	0.00
ATOM 1148	H	ASN A	76	-9.457	-17.897	-10.863	1.00	0.00
ATOM 1149	HA	ASN A	76	-9.916	-15.045	-10.375	1.00	0.00
ATOM 1150	1HB	ASN A	76	-11.629	-17.359	-10.951	1.00	0.00
ATOM 1151	2HB	ASN A	76	-12.251	-16.313	-9.678	1.00	0.00
ATOM 1152	1HD2	ASN A	76	-10.636	-15.933	-12.820	1.00	0.00
ATOM 1153	2HD2	ASN A	76	-11.713	-14.721	-13.416	1.00	0.00
ATOM 1154	N	ASN A	77	-8.853	-16.520	-8.099	1.00	0.00
ATOM 1155	CA	ASN A	77	-8.614	-16.668	-6.668	1.00	0.00
ATOM 1156	C	ASN A	77	-7.710	-15.554	-6.148	1.00	0.00
ATOM 1157	O	ASN A	77	-6.995	-15.731	-5.161	1.00	0.00
ATOM 1158	CB	ASN A	77	-7.984	-18.031	-6.373	1.00	0.00
ATOM 1159	CG	ASN A	77	-8.309	-18.529	-4.978	1.00	0.00
ATOM 1160	OD1	ASN A	77	-7.415	-18.743	-4.159	1.00	0.00



ATOM 1161	ND2	ASN A	77	-9.594	-18.716	-4.701	1.00	0.00
ATOM 1162	H	ASN A	77	-8.116	-16.673	-8.725	1.00	0.00
ATOM 1163	HA	ASN A	77	-9.567	-16.606	-6.164	1.00	0.00
ATOM 1164	1HB	ASN A	77	-8.354	-18.753	-7.087	1.00	0.00
ATOM 1165	2HB	ASN A	77	-6.911	-17.953	-6.467	1.00	0.00
ATOM 1166	1HD2	ASN A	77	-10.252	-18.525	-5.402	1.00	0.00
ATOM 1167	2HD2	ASN A	77	-9.833	-19.037	-3.806	1.00	0.00
ATOM 1168	N	HIS A	78	-7.748	-14.405	-6.817	1.00	0.00
ATOM 1169	CA	HIS A	78	-6.934	-13.261	-6.423	1.00	0.00
ATOM 1170	C	HIS A	78	-7.746	-11.972	-6.488	1.00	0.00
ATOM 1171	O	HIS A	78	-8.948	-11.997	-6.755	1.00	0.00
ATOM 1172	CB	HIS A	78	-5.702	-13.150	-7.323	1.00	0.00
ATOM 1173	CG	HIS A	78	-4.826	-14.364	-7.294	1.00	0.00
ATOM 1174	ND1	HIS A	78	-4.164	-14.840	-8.406	1.00	0.00
ATOM 1175	CD2	HIS A	78	-4.502	-15.199	-6.278	1.00	0.00
ATOM 1176	CE1	HIS A	78	-3.471	-15.916	-8.076	1.00	0.00
ATOM 1177	NE2	HIS A	78	-3.659	-16.153	-6.792	1.00	0.00
ATOM 1178	H	HIS A	78	-8.339	-14.324	-7.595	1.00	0.00
ATOM 1179	HA	HIS A	78	-6.612	-13.419	-5.404	1.00	0.00
ATOM 1180	1HB	HIS A	78	-6.023	-12.996	-8.342	1.00	0.00
ATOM 1181	2HB	HIS A	78	-5.110	-12.304	-7.007	1.00	0.00
ATOM 1182	HD1	HIS A	78	-4.197	-14.450	-9.304	1.00	0.00
ATOM 1183	HD2	HIS A	78	-4.843	-15.127	-5.256	1.00	0.00
ATOM 1184	HE1	HIS A	78	-2.855	-16.500	-8.743	1.00	0.00
ATOM 1185	HE2	HIS A	78	-3.323	-16.936	-6.306	1.00	0.00
ATOM 1186	N	THR A	79	-7.084	-10.846	-6.243	1.00	0.00
ATOM 1187	CA	THR A	79	-7.749	-9.548	-6.274	1.00	0.00

ATOM 1188	C	THR A	79	-6.741	-8.425	-6.499	1.00	0.00
ATOM 1189	O	THR A	79	-5.799	-8.258	-5.725	1.00	0.00
ATOM 1190	CB	THR A	79	-8.509	-9.311	-4.968	1.00	0.00
ATOM 1191	OG1	THR A	79	-9.445	-10.349	-4.738	1.00	0.00
ATOM 1192	CG2	THR A	79	-9.263	-7.999	-4.943	1.00	0.00
ATOM 1193	H	THR A	79	-6.128	-10.888	-6.035	1.00	0.00
ATOM 1194	HA	THR A	79	-8.452	-9.555	-7.094	1.00	0.00
ATOM 1195	HB	THR A	79	-7.803	-9.303	-4.149	1.00	0.00
ATOM 1196	HG1	THR A	79	-9.219	-10.810	-3.925	1.00	0.00
ATOM 1197	1HG2	THR A	79	-9.024	-7.430	-5.829	1.00	0.00
ATOM 1198	2HG2	THR A	79	-8.978	-7.437	-4.066	1.00	0.00
ATOM 1199	3HG2	THR A	79	-10.325	-8.195	-4.916	1.00	0.00
ATOM 1200	N	GLY A	80	-6.949	-7.655	-7.563	1.00	0.00
ATOM 1201	CA	GLY A	80	-6.053	-6.555	-7.869	1.00	0.00
ATOM 1202	C	GLY A	80	-6.374	-5.310	-7.067	1.00	0.00
ATOM 1203	O	GLY A	80	-7.437	-4.712	-7.236	1.00	0.00
ATOM 1204	H	GLY A	80	-7.717	-7.834	-8.144	1.00	0.00
ATOM 1205	1HA	GLY A	80	-5.040	-6.859	-7.651	1.00	0.00
ATOM 1206	2HA	GLY A	80	-6.130	-6.323	-8.921	1.00	0.00
ATOM 1207	N	VAL A	81	-5.455	-4.920	-6.190	1.00	0.00
ATOM 1208	CA	VAL A	81	-5.649	-3.739	-5.357	1.00	0.00
ATOM 1209	C	VAL A	81	-5.366	-2.460	-6.135	1.00	0.00
ATOM 1210	O	VAL A	81	-4.224	-2.187	-6.504	1.00	0.00
ATOM 1211	CB	VAL A	81	-4.743	-3.774	-4.111	1.00	0.00
ATOM 1212	CG1	VAL A	81	-5.060	-2.612	-3.182	1.00	0.00
ATOM 1213	CG2	VAL A	81	-4.886	-5.101	-3.383	1.00	0.00
ATOM 1214	H	VAL A	81	-4.629	-5.438	-6.099	1.00	0.00

ATOM 1215	HA	VAL A	81	-6.677	-3.728	-5.027	1.00	0.00
ATOM 1216	HB	VAL A	81	-3.717	-3.675	-4.435	1.00	0.00
ATOM 1217	1HG1	VAL A	81	-4.920	-2.921	-2.157	1.00	0.00
ATOM 1218	2HG1	VAL A	81	-6.085	-2.303	-3.327	1.00	0.00
ATOM 1219	3HG1	VAL A	81	-4.401	-1.784	-3.401	1.00	0.00
ATOM 1220	1HG2	VAL A	81	-5.747	-5.063	-2.732	1.00	0.00
ATOM 1221	2HG2	VAL A	81	-3.998	-5.286	-2.797	1.00	0.00
ATOM 1222	3HG2	VAL A	81	-5.014	-5.895	-4.104	1.00	0.00
ATOM 1223	N	ASP A	82	-6.410	-1.674	-6.372	1.00	0.00
ATOM 1224	CA	ASP A	82	-6.270	-0.416	-7.096	1.00	0.00
ATOM 1225	C	ASP A	82	-6.209	0.752	-6.119	1.00	0.00
ATOM 1226	O	ASP A	82	-7.226	1.377	-5.817	1.00	0.00
ATOM 1227	CB	ASP A	82	-7.435	-0.229	-8.072	1.00	0.00
ATOM 1228	CG	ASP A	82	-7.012	-0.409	-9.516	1.00	0.00
ATOM 1229	OD1	ASP A	82	-7.486	-1.370	-10.158	1.00	0.00
ATOM 1230	OD2	ASP A	82	-6.207	0.411	-10.006	1.00	0.00
ATOM 1231	H	ASP A	82	-7.295	-1.942	-6.046	1.00	0.00
ATOM 1232	HA	ASP A	82	-5.345	-0.455	-7.653	1.00	0.00
ATOM 1233	1HB	ASP A	82	-8.203	-0.955	-7.849	1.00	0.00
ATOM 1234	2HB	ASP A	82	-7.840	0.766	-7.956	1.00	0.00
ATOM 1235	N	SER A	83	-5.010	1.035	-5.620	1.00	0.00
ATOM 1236	CA	SER A	83	-4.815	2.120	-4.668	1.00	0.00
ATOM 1237	C	SER A	83	-4.167	3.327	-5.335	1.00	0.00
ATOM 1238	O	SER A	83	-3.849	3.298	-6.523	1.00	0.00
ATOM 1239	CB	SER A	83	-3.954	1.643	-3.497	1.00	0.00
ATOM 1240	OG	SER A	83	-3.049	0.631	-3.906	1.00	0.00
ATOM 1241	H	SER A	83	-4.238	0.497	-5.894	1.00	0.00

ATOM 1242	HA	SER A	83	-5.785	2.409	-4.293	1.00	0.00
ATOM 1243	1HB	SER A	83	-3.389	2.475	-3.105	1.00	0.00
ATOM 1244	2HB	SER A	83	-4.592	1.245	-2.721	1.00	0.00
ATOM 1245	HG	SER A	83	-3.538	-0.159	-4.144	1.00	0.00
ATOM 1246	N	LEU A	84	-3.977	4.389	-4.559	1.00	0.00
ATOM 1247	CA	LEU A	84	-3.372	5.613	-5.070	1.00	0.00
ATOM 1248	C	LEU A	84	-2.377	6.187	-4.067	1.00	0.00
ATOM 1249	O	LEU A	84	-2.769	6.771	-3.057	1.00	0.00
ATOM 1250	CB	LEU A	84	-4.456	6.647	-5.381	1.00	0.00
ATOM 1251	CG	LEU A	84	-4.088	7.675	-6.454	1.00	0.00
ATOM 1252	CD1	LEU A	84	-2.976	8.589	-5.961	1.00	0.00
ATOM 1253	CD2	LEU A	84	-3.682	6.979	-7.747	1.00	0.00
ATOM 1254	H	LEU A	84	-4.255	4.351	-3.620	1.00	0.00
ATOM 1255	HA	LEU A	84	-2.846	5.368	-5.982	1.00	0.00
ATOM 1256	1HB	LEU A	84	-5.341	6.121	-5.705	1.00	0.00
ATOM 1257	2HB	LEU A	84	-4.686	7.179	-4.470	1.00	0.00
ATOM 1258	HG	LEU A	84	-4.953	8.288	-6.663	1.00	0.00
ATOM 1259	1HD1	LEU A	84	-2.881	8.496	-4.889	1.00	0.00
ATOM 1260	2HD1	LEU A	84	-3.213	9.612	-6.213	1.00	0.00
ATOM 1261	3HD1	LEU A	84	-2.045	8.311	-6.432	1.00	0.00
ATOM 1262	1HD2	LEU A	84	-3.814	5.912	-7.640	1.00	0.00
ATOM 1263	2HD2	LEU A	84	-2.646	7.193	-7.963	1.00	0.00
ATOM 1264	3HD2	LEU A	84	-4.299	7.337	-8.557	1.00	0.00
ATOM 1265	N	CYS A	85	-1.089	6.020	-4.352	1.00	0.00
ATOM 1266	CA	CYS A	85	-0.041	6.528	-3.474	1.00	0.00
ATOM 1267	C	CYS A	85	-0.046	8.054	-3.458	1.00	0.00
ATOM 1268	O	CYS A	85	0.810	8.694	-4.069	1.00	0.00

ATOM	1269	CB	CYS	A	85	1.328	6.011	-3.925	1.00	0.00
ATOM	1270	SG	CYS	A	85	1.689	4.324	-3.391	1.00	0.00
ATOM	1271	H	CYS	A	85	-0.838	5.548	-5.173	1.00	0.00
ATOM	1272	HA	CYS	A	85	-0.241	6.166	-2.477	1.00	0.00
ATOM	1273	1HB	CYS	A	85	1.376	6.032	-5.002	1.00	0.00
ATOM	1274	2HB	CYS	A	85	2.098	6.656	-3.524	1.00	0.00
ATOM	1275	HG	CYS	A	85	2.381	3.975	-3.957	1.00	0.00
ATOM	1276	N	ASN	A	86	-1.020	8.629	-2.761	1.00	0.00
ATOM	1277	CA	ASN	A	86	-1.145	10.080	-2.670	1.00	0.00
ATOM	1278	C	ASN	A	86	-0.005	10.679	-1.854	1.00	0.00
ATOM	1279	O	ASN	A	86	0.519	10.043	-0.939	1.00	0.00
ATOM	1280	CB	ASN	A	86	-2.488	10.457	-2.043	1.00	0.00
ATOM	1281	CG	ASN	A	86	-3.578	10.639	-3.081	1.00	0.00
ATOM	1282	OD1	ASN	A	86	-3.524	11.556	-3.901	1.00	0.00
ATOM	1283	ND2	ASN	A	86	-4.575	9.763	-3.050	1.00	0.00
ATOM	1284	H	ASN	A	86	-1.675	8.064	-2.300	1.00	0.00
ATOM	1285	HA	ASN	A	86	-1.102	10.479	-3.672	1.00	0.00
ATOM	1286	1HB	ASN	A	86	-2.792	9.678	-1.361	1.00	0.00
ATOM	1287	2HB	ASN	A	86	-2.376	11.383	-1.498	1.00	0.00
ATOM	1288	1HD2	ASN	A	86	-4.552	9.059	-2.368	1.00	0.00
ATOM	1289	2HD2	ASN	A	86	-5.294	9.857	-3.710	1.00	0.00
ATOM	1290	N	PHE	A	87	0.375	11.907	-2.193	1.00	0.00
ATOM	1291	CA	PHE	A	87	1.454	12.593	-1.493	1.00	0.00
ATOM	1292	C	PHE	A	87	1.020	13.991	-1.059	1.00	0.00
ATOM	1293	O	PHE	A	87	-0.104	14.415	-1.330	1.00	0.00
ATOM	1294	CB	PHE	A	87	2.692	12.686	-2.386	1.00	0.00
ATOM	1295	CG	PHE	A	87	3.603	11.498	-2.272	1.00	0.00

ATOM 1296	CD1	PHE A	87	4.906	11.647	-1.828	1.00	0.00
ATOM 1297	CD2	PHE A	87	3.154	10.231	-2.608	1.00	0.00
ATOM 1298	CE1	PHE A	87	5.746	10.555	-1.721	1.00	0.00
ATOM 1299	CE2	PHE A	87	3.988	9.135	-2.504	1.00	0.00
ATOM 1300	CZ	PHE A	87	5.287	9.297	-2.060	1.00	0.00
ATOM 1301	H	PHE A	87	-0.080	12.362	-2.932	1.00	0.00
ATOM 1302	HA	PHE A	87	1.699	12.017	-0.613	1.00	0.00
ATOM 1303	1HB	PHE A	87	2.378	12.765	-3.416	1.00	0.00
ATOM 1304	2HB	PHE A	87	3.256	13.567	-2.118	1.00	0.00
ATOM 1305	HD1	PHE A	87	5.265	12.631	-1.562	1.00	0.00
ATOM 1306	HD2	PHE A	87	2.140	10.103	-2.956	1.00	0.00
ATOM 1307	HE1	PHE A	87	6.760	10.686	-1.374	1.00	0.00
ATOM 1308	HE2	PHE A	87	3.627	8.152	-2.769	1.00	0.00
ATOM 1309	HZ	PHE A	87	5.941	8.443	-1.977	1.00	0.00
ATOM 1310	N	SER A	88	1.918	14.699	-0.383	1.00	0.00
ATOM 1311	CA	SER A	88	1.630	16.049	0.089	1.00	0.00
ATOM 1312	C	SER A	88	2.174	17.093	-0.883	1.00	0.00
ATOM 1313	O	SER A	88	2.977	16.777	-1.760	1.00	0.00
ATOM 1314	CB	SER A	88	2.233	16.261	1.481	1.00	0.00
ATOM 1315	OG	SER A	88	1.220	16.478	2.448	1.00	0.00
ATOM 1316	H	SER A	88	2.796	14.305	-0.198	1.00	0.00
ATOM 1317	HA	SER A	88	0.558	16.155	0.151	1.00	0.00
ATOM 1318	1HB	SER A	88	2.799	15.386	1.763	1.00	0.00
ATOM 1319	2HB	SER A	88	2.887	17.121	1.462	1.00	0.00
ATOM 1320	HG	SER A	88	0.502	15.856	2.307	1.00	0.00
ATOM 1321	N	PRO A	89	1.743	18.359	-0.738	1.00	0.00
ATOM 1322	CA	PRO A	89	2.194	19.450	-1.609	1.00	0.00

ATOM 1323	C	PRO A	89	3.693	19.704	-1.486	1.00	0.00
ATOM 1324	O	PRO A	89	4.333	20.169	-2.429	1.00	0.00
ATOM 1325	CB	PRO A	89	1.403	20.665	-1.111	1.00	0.00
ATOM 1326	CG	PRO A	89	0.988	20.314	0.277	1.00	0.00
ATOM 1327	CD	PRO A	89	0.790	18.825	0.282	1.00	0.00
ATOM 1328	HA	PRO A	89	1.949	19.256	-2.643	1.00	0.00
ATOM 1329	1HB	PRO A	89	2.037	21.540	-1.123	1.00	0.00
ATOM 1330	2HB	PRO A	89	0.546	20.825	-1.749	1.00	0.00
ATOM 1331	1HG	PRO A	89	1.764	20.591	0.974	1.00	0.00
ATOM 1332	2HG	PRO A	89	0.064	20.816	0.522	1.00	0.00
ATOM 1333	1HD	PRO A	89	1.030	18.416	1.253	1.00	0.00
ATOM 1334	2HD	PRO A	89	-0.224	18.578	0.005	1.00	0.00
ATOM 1335	N	LEU A	90	4.247	19.393	-0.319	1.00	0.00
ATOM 1336	CA	LEU A	90	5.672	19.585	-0.074	1.00	0.00
ATOM 1337	C	LEU A	90	6.500	18.585	-0.875	1.00	0.00
ATOM 1338	O	LEU A	90	7.625	18.877	-1.278	1.00	0.00
ATOM 1339	CB	LEU A	90	5.979	19.441	1.417	1.00	0.00
ATOM 1340	CG	LEU A	90	5.760	20.705	2.249	1.00	0.00
ATOM 1341	CD1	LEU A	90	4.335	20.757	2.777	1.00	0.00
ATOM 1342	CD2	LEU A	90	6.758	20.766	3.397	1.00	0.00
ATOM 1343	H	LEU A	90	3.686	19.024	0.394	1.00	0.00
ATOM 1344	HA	LEU A	90	5.930	20.585	-0.392	1.00	0.00
ATOM 1345	1HB	LEU A	90	5.351	18.657	1.817	1.00	0.00
ATOM 1346	2HB	LEU A	90	7.011	19.141	1.523	1.00	0.00
ATOM 1347	HG	LEU A	90	5.916	21.571	1.623	1.00	0.00
ATOM 1348	1HD1	LEU A	90	3.644	20.606	1.961	1.00	0.00
ATOM 1349	2HD1	LEU A	90	4.153	21.721	3.228	1.00	0.00

ATOM	1350	3HD1	LEU	A	90	4.195	19.982	3.515	1.00	0.00
ATOM	1351	1HD2	LEU	A	90	6.296	20.386	4.296	1.00	0.00
ATOM	1352	2HD2	LEU	A	90	7.064	21.789	3.554	1.00	0.00
ATOM	1353	3HD2	LEU	A	90	7.622	20.165	3.154	1.00	0.00
ATOM	1354	N	ALA	A	91	5.933	17.404	-1.101	1.00	0.00
ATOM	1355	CA	ALA	A	91	6.618	16.360	-1.854	1.00	0.00
ATOM	1356	C	ALA	A	91	6.917	16.816	-3.278	1.00	0.00
ATOM	1357	O	ALA	A	91	6.004	17.030	-4.075	1.00	0.00
ATOM	1358	CB	ALA	A	91	5.783	15.088	-1.871	1.00	0.00
ATOM	1359	H	ALA	A	91	5.034	17.230	-0.754	1.00	0.00
ATOM	1360	HA	ALA	A	91	7.550	16.143	-1.352	1.00	0.00
ATOM	1361	1HB	ALA	A	91	5.183	15.063	-2.767	1.00	0.00
ATOM	1362	2HB	ALA	A	91	5.137	15.070	-1.005	1.00	0.00
ATOM	1363	3HB	ALA	A	91	6.435	14.228	-1.851	1.00	0.00
ATOM	1364	N	ARG	A	92	8.200	16.964	-3.590	1.00	0.00
ATOM	1365	CA	ARG	A	92	8.618	17.395	-4.919	1.00	0.00
ATOM	1366	C	ARG	A	92	9.530	16.357	-5.566	1.00	0.00
ATOM	1367	O	ARG	A	92	9.408	16.066	-6.756	1.00	0.00
ATOM	1368	CB	ARG	A	92	9.338	18.743	-4.838	1.00	0.00
ATOM	1369	CG	ARG	A	92	8.395	19.932	-4.749	1.00	0.00
ATOM	1370	CD	ARG	A	92	8.199	20.589	-6.106	1.00	0.00
ATOM	1371	NE	ARG	A	92	6.989	20.116	-6.774	1.00	0.00
ATOM	1372	CZ	ARG	A	92	6.738	20.296	-8.069	1.00	0.00
ATOM	1373	NH1	ARG	A	92	7.610	20.937	-8.837	1.00	0.00
ATOM	1374	NH2	ARG	A	92	5.614	19.833	-8.597	1.00	0.00
ATOM	1375	H	ARG	A	92	8.881	16.778	-2.910	1.00	0.00
ATOM	1376	HA	ARG	A	92	7.732	17.507	-5.525	1.00	0.00



ATOM 1377	1HB	ARG	A	92	9.972	18.748	-3.962	1.00	0.00
ATOM 1378	2HB	ARG	A	92	9.953	18.863	-5.717	1.00	0.00
ATOM 1379	1HG	ARG	A	92	7.437	19.593	-4.383	1.00	0.00
ATOM 1380	2HG	ARG	A	92	8.808	20.657	-4.064	1.00	0.00
ATOM 1381	1HD	ARG	A	92	8.127	21.658	-5.967	1.00	0.00
ATOM 1382	2HD	ARG	A	92	9.054	20.365	-6.728	1.00	0.00
ATOM 1383	HE	ARG	A	92	6.328	19.639	-6.229	1.00	0.00
ATOM 1384	1HH1	ARG	A	92	8.460	21.288	-8.446	1.00	0.00
ATOM 1385	2HH1	ARG	A	92	7.416	21.069	-9.810	1.00	0.00
ATOM 1386	1HH2	ARG	A	92	4.953	19.349	-8.021	1.00	0.00
ATOM 1387	2HH2	ARG	A	92	5.425	19.968	-9.569	1.00	0.00
ATOM 1388	N	ARG	A	93	10.442	15.803	-4.775	1.00	0.00
ATOM 1389	CA	ARG	A	93	11.375	14.799	-5.272	1.00	0.00
ATOM 1390	C	ARG	A	93	10.917	13.394	-4.893	1.00	0.00
ATOM 1391	O	ARG	A	93	11.403	12.811	-3.923	1.00	0.00
ATOM 1392	CB	ARG	A	93	12.778	15.056	-4.719	1.00	0.00
ATOM 1393	CG	ARG	A	93	13.222	16.506	-4.837	1.00	0.00
ATOM 1394	CD	ARG	A	93	13.661	16.840	-6.254	1.00	0.00
ATOM 1395	NE	ARG	A	93	14.243	18.177	-6.345	1.00	0.00
ATOM 1396	CZ	ARG	A	93	15.425	18.507	-5.831	1.00	0.00
ATOM 1397	NH1	ARG	A	93	16.156	17.603	-5.190	1.00	0.00
ATOM 1398	NH2	ARG	A	93	15.880	19.747	-5.959	1.00	0.00
ATOM 1399	H	ARG	A	93	10.491	16.077	-3.836	1.00	0.00
ATOM 1400	HA	ARG	A	93	11.403	14.876	-6.349	1.00	0.00
ATOM 1401	1HB	ARG	A	93	12.797	14.780	-3.674	1.00	0.00
ATOM 1402	2HB	ARG	A	93	13.483	14.441	-5.257	1.00	0.00
ATOM 1403	1HG	ARG	A	93	12.396	17.148	-4.566	1.00	0.00

ATOM 1404	2HG	ARG	A	93	14.048	16.675	-4.162	1.00	0.00
ATOM 1405	1HD	ARG	A	93	14.398	16.116	-6.567	1.00	0.00
ATOM 1406	2HD	ARG	A	93	12.802	16.785	-6.906	1.00	0.00
ATOM 1407	HE	ARG	A	93	13.725	18.864	-6.813	1.00	0.00
ATOM 1408	1HH1	ARG	A	93	15.819	16.666	-5.092	1.00	0.00
ATOM 1409	2HH1	ARG	A	93	17.043	17.858	-4.807	1.00	0.00
ATOM 1410	1HH2	ARG	A	93	15.334	20.433	-6.440	1.00	0.00
ATOM 1411	2HH2	ARG	A	93	16.768	19.996	-5.573	1.00	0.00
ATOM 1412	N	VAL	A	94	9.979	12.853	-5.665	1.00	0.00
ATOM 1413	CA	VAL	A	94	9.457	11.516	-5.412	1.00	0.00
ATOM 1414	C	VAL	A	94	9.397	10.700	-6.698	1.00	0.00
ATOM 1415	O	VAL	A	94	8.750	11.096	-7.667	1.00	0.00
ATOM 1416	CB	VAL	A	94	8.050	11.571	-4.785	1.00	0.00
ATOM 1417	CG1	VAL	A	94	7.587	10.178	-4.382	1.00	0.00
ATOM 1418	CG2	VAL	A	94	8.034	12.512	-3.590	1.00	0.00
ATOM 1419	H	VAL	A	94	9.632	13.366	-6.424	1.00	0.00
ATOM 1420	HA	VAL	A	94	10.119	11.025	-4.715	1.00	0.00
ATOM 1421	HB	VAL	A	94	7.362	11.953	-5.526	1.00	0.00
ATOM 1422	1HG1	VAL	A	94	8.161	9.841	-3.531	1.00	0.00
ATOM 1423	2HG1	VAL	A	94	7.734	9.498	-5.207	1.00	0.00
ATOM 1424	3HG1	VAL	A	94	6.540	10.209	-4.121	1.00	0.00
ATOM 1425	1HG2	VAL	A	94	8.627	12.090	-2.792	1.00	0.00
ATOM 1426	2HG2	VAL	A	94	7.017	12.646	-3.250	1.00	0.00
ATOM 1427	3HG2	VAL	A	94	8.447	13.467	-3.878	1.00	0.00
ATOM 1428	N	ASP	A	95	10.077	9.558	-6.701	1.00	0.00
ATOM 1429	CA	ASP	A	95	10.103	8.687	-7.869	1.00	0.00
ATOM 1430	C	ASP	A	95	9.117	7.534	-7.712	1.00	0.00

ATOM 1431	O	ASP	A	95	8.587	7.300	-6.626	1.00	0.00
ATOM 1432	CB	ASP	A	95	11.515	8.139	-8.092	1.00	0.00
ATOM 1433	CG	ASP	A	95	11.747	7.704	-9.525	1.00	0.00
ATOM 1434	OD1	ASP	A	95	12.073	6.518	-9.740	1.00	0.00
ATOM 1435	OD2	ASP	A	95	11.602	8.549	-10.433	1.00	0.00
ATOM 1436	H	ASP	A	95	10.575	9.297	-5.898	1.00	0.00
ATOM 1437	HA	ASP	A	95	9.816	9.275	-8.728	1.00	0.00
ATOM 1438	1HB	ASP	A	95	12.234	8.906	-7.848	1.00	0.00
ATOM 1439	2HB	ASP	A	95	11.669	7.286	-7.446	1.00	0.00
ATOM 1440	N	ARG	A	96	8.876	6.817	-8.805	1.00	0.00
ATOM 1441	CA	ARG	A	96	7.953	5.687	-8.791	1.00	0.00
ATOM 1442	C	ARG	A	96	8.533	4.523	-7.995	1.00	0.00
ATOM 1443	O	ARG	A	96	7.881	3.981	-7.103	1.00	0.00
ATOM 1444	CB	ARG	A	96	7.641	5.235	-10.221	1.00	0.00
ATOM 1445	CG	ARG	A	96	7.492	6.382	-11.207	1.00	0.00
ATOM 1446	CD	ARG	A	96	6.755	5.945	-12.463	1.00	0.00
ATOM 1447	NE	ARG	A	96	7.520	4.968	-13.235	1.00	0.00
ATOM 1448	CZ	ARG	A	96	8.533	5.285	-14.036	1.00	0.00
ATOM 1449	NH1	ARG	A	96	8.907	6.551	-14.176	1.00	0.00
ATOM 1450	NH2	ARG	A	96	9.176	4.334	-14.700	1.00	0.00
ATOM 1451	H	ARG	A	96	9.328	7.053	-9.641	1.00	0.00
ATOM 1452	HA	ARG	A	96	7.038	6.012	-8.318	1.00	0.00
ATOM 1453	1HB	ARG	A	96	8.440	4.595	-10.565	1.00	0.00
ATOM 1454	2HB	ARG	A	96	6.719	4.672	-10.214	1.00	0.00
ATOM 1455	1HG	ARG	A	96	6.937	7.179	-10.737	1.00	0.00
ATOM 1456	2HG	ARG	A	96	8.474	6.738	-11.482	1.00	0.00
ATOM 1457	1HD	ARG	A	96	5.813	5.503	-12.176	1.00	0.00

ATOM 1458	2HD	ARG	A	96	6.573	6.812	-13.079	1.00	0.00
ATOM 1459	HE	ARG	A	96	7.265	4.025	-13.150	1.00	0.00
ATOM 1460	1HH1	ARG	A	96	8.427	7.273	-13.678	1.00	0.00
ATOM 1461	2HH1	ARG	A	96	9.670	6.783	-14.780	1.00	0.00
ATOM 1462	1HH2	ARG	A	96	8.899	3.378	-14.598	1.00	0.00
ATOM 1463	2HH2	ARG	A	96	9.938	4.573	-15.303	1.00	0.00
ATOM 1464	N	VAL	A	97	9.763	4.145	-8.324	1.00	0.00
ATOM 1465	CA	VAL	A	97	10.435	3.044	-7.641	1.00	0.00
ATOM 1466	C	VAL	A	97	10.551	3.312	-6.143	1.00	0.00
ATOM 1467	O	VAL	A	97	10.638	2.382	-5.342	1.00	0.00
ATOM 1468	CB	VAL	A	97	11.843	2.801	-8.217	1.00	0.00
ATOM 1469	CG1	VAL	A	97	12.429	1.507	-7.671	1.00	0.00
ATOM 1470	CG2	VAL	A	97	11.803	2.776	-9.737	1.00	0.00
ATOM 1471	H	VAL	A	97	10.232	4.617	-9.044	1.00	0.00
ATOM 1472	HA	VAL	A	97	9.848	2.150	-7.792	1.00	0.00
ATOM 1473	HB	VAL	A	97	12.482	3.615	-7.909	1.00	0.00
ATOM 1474	1HG1	VAL	A	97	12.337	0.729	-8.414	1.00	0.00
ATOM 1475	2HG1	VAL	A	97	11.893	1.217	-6.779	1.00	0.00
ATOM 1476	3HG1	VAL	A	97	13.471	1.656	-7.433	1.00	0.00
ATOM 1477	1HG2	VAL	A	97	12.713	2.335	-10.115	1.00	0.00
ATOM 1478	2HG2	VAL	A	97	11.709	3.784	-10.111	1.00	0.00
ATOM 1479	3HG2	VAL	A	97	10.957	2.190	-10.066	1.00	0.00
ATOM 1480	N	ALA	A	98	10.555	4.590	-5.770	1.00	0.00
ATOM 1481	CA	ALA	A	98	10.662	4.978	-4.368	1.00	0.00
ATOM 1482	C	ALA	A	98	9.591	4.297	-3.521	1.00	0.00
ATOM 1483	O	ALA	A	98	9.901	3.512	-2.625	1.00	0.00
ATOM 1484	CB	ALA	A	98	10.561	6.489	-4.233	1.00	0.00

ATOM 1485	H	ALA A	98	10.484	5.288	-6.454	1.00	0.00
ATOM 1486	HA	ALA A	98	11.636	4.674	-4.012	1.00	0.00
ATOM 1487	1HB	ALA A	98	10.566	6.758	-3.187	1.00	0.00
ATOM 1488	2HB	ALA A	98	9.642	6.830	-4.687	1.00	0.00
ATOM 1489	3HB	ALA A	98	11.401	6.952	-4.728	1.00	0.00
ATOM 1490	N	ILE A	99	8.330	4.601	-3.812	1.00	0.00
ATOM 1491	CA	ILE A	99	7.215	4.016	-3.078	1.00	0.00
ATOM 1492	C	ILE A	99	7.130	2.512	-3.322	1.00	0.00
ATOM 1493	O	ILE A	99	6.589	1.769	-2.503	1.00	0.00
ATOM 1494	CB	ILE A	99	5.874	4.669	-3.470	1.00	0.00
ATOM 1495	CG1	ILE A	99	5.976	6.193	-3.378	1.00	0.00
ATOM 1496	CG2	ILE A	99	4.754	4.154	-2.577	1.00	0.00
ATOM 1497	CD1	ILE A	99	5.079	6.916	-4.358	1.00	0.00
ATOM 1498	H	ILE A	99	8.146	5.233	-4.539	1.00	0.00
ATOM 1499	HA	ILE A	99	7.382	4.189	-2.024	1.00	0.00
ATOM 1500	HB	ILE A	99	5.645	4.391	-4.486	1.00	0.00
ATOM 1501	1HG1	ILE A	99	5.698	6.507	-2.383	1.00	0.00
ATOM 1502	2HG1	ILE A	99	6.994	6.493	-3.574	1.00	0.00
ATOM 1503	1HG2	ILE A	99	4.074	4.963	-2.348	1.00	0.00
ATOM 1504	2HG2	ILE A	99	5.173	3.766	-1.661	1.00	0.00
ATOM 1505	3HG2	ILE A	99	4.218	3.368	-3.090	1.00	0.00
ATOM 1506	1HD1	ILE A	99	4.045	6.728	-4.108	1.00	0.00
ATOM 1507	2HD1	ILE A	99	5.278	6.561	-5.359	1.00	0.00
ATOM 1508	3HD1	ILE A	99	5.273	7.978	-4.308	1.00	0.00
ATOM 1509	N	TYR A	100	7.670	2.069	-4.454	1.00	0.00
ATOM 1510	CA	TYR A	100	7.658	0.655	-4.807	1.00	0.00
ATOM 1511	C	TYR A	100	8.606	-0.136	-3.912	1.00	0.00

ATOM 1512	O	TYR A 100	8.276	-1.229	-3.452	1.00	0.00
ATOM 1513	CB	TYR A 100	8.056	0.473	-6.272	1.00	0.00
ATOM 1514	CG	TYR A 100	7.924	-0.949	-6.768	1.00	0.00
ATOM 1515	CD1	TYR A 100	9.049	-1.707	-7.071	1.00	0.00
ATOM 1516	CD2	TYR A 100	6.675	-1.534	-6.936	1.00	0.00
ATOM 1517	CE1	TYR A 100	8.934	-3.007	-7.525	1.00	0.00
ATOM 1518	CE2	TYR A 100	6.551	-2.834	-7.389	1.00	0.00
ATOM 1519	CZ	TYR A 100	7.683	-3.566	-7.683	1.00	0.00
ATOM 1520	OH	TYR A 100	7.563	-4.860	-8.134	1.00	0.00
ATOM 1521	H	TYR A 100	8.088	2.709	-5.067	1.00	0.00
ATOM 1522	HA	TYR A 100	6.654	0.285	-4.667	1.00	0.00
ATOM 1523	1HB	TYR A 100	7.429	1.098	-6.887	1.00	0.00
ATOM 1524	2HB	TYR A 100	9.087	0.774	-6.396	1.00	0.00
ATOM 1525	HD1	TYR A 100	10.028	-1.267	-6.945	1.00	0.00
ATOM 1526	HD2	TYR A 100	5.791	-0.958	-6.706	1.00	0.00
ATOM 1527	HE1	TYR A 100	9.820	-3.580	-7.754	1.00	0.00
ATOM 1528	HE2	TYR A 100	5.571	-3.271	-7.513	1.00	0.00
ATOM 1529	HH	TYR A 100	6.830	-4.916	-8.753	1.00	0.00
ATOM 1530	N	GLU A 101	9.787	0.425	-3.672	1.00	0.00
ATOM 1531	CA	GLU A 101	10.788	-0.227	-2.834	1.00	0.00
ATOM 1532	C	GLU A 101	10.454	-0.065	-1.354	1.00	0.00
ATOM 1533	O	GLU A 101	10.684	-0.971	-0.553	1.00	0.00
ATOM 1534	CB	GLU A 101	12.176	0.347	-3.123	1.00	0.00
ATOM 1535	CG	GLU A 101	12.927	-0.398	-4.214	1.00	0.00
ATOM 1536	CD	GLU A 101	14.392	-0.602	-3.880	1.00	0.00
ATOM 1537	OE1	GLU A 101	15.132	0.402	-3.822	1.00	0.00
ATOM 1538	OE2	GLU A 101	14.797	-1.766	-3.676	1.00	0.00

ATOM 1539	H	GLU A 101	9.990	1.298	-4.070	1.00	0.00
ATOM 1540	HA	GLU A 101	10.787	-1.279	-3.077	1.00	0.00
ATOM 1541	1HB	GLU A 101	12.071	1.378	-3.427	1.00	0.00
ATOM 1542	2HB	GLU A 101	12.765	0.306	-2.218	1.00	0.00
ATOM 1543	1HG	GLU A 101	12.468	-1.365	-4.354	1.00	0.00
ATOM 1544	2HG	GLU A 101	12.857	0.168	-5.132	1.00	0.00
ATOM 1545	N	GLU A 102	9.914	1.096	-0.997	1.00	0.00
ATOM 1546	CA	GLU A 102	9.552	1.376	0.388	1.00	0.00
ATOM 1547	C	GLU A 102	8.441	0.443	0.861	1.00	0.00
ATOM 1548	O	GLU A 102	8.351	0.121	2.046	1.00	0.00
ATOM 1549	CB	GLU A 102	9.109	2.834	0.535	1.00	0.00
ATOM 1550	CG	GLU A 102	10.199	3.747	1.073	1.00	0.00
ATOM 1551	CD	GLU A 102	11.018	4.390	-0.028	1.00	0.00
ATOM 1552	OE1	GLU A 102	10.447	5.184	-0.807	1.00	0.00
ATOM 1553	OE2	GLU A 102	12.230	4.100	-0.113	1.00	0.00
ATOM 1554	H	GLU A 102	9.756	1.781	-1.680	1.00	0.00
ATOM 1555	HA	GLU A 102	10.427	1.211	0.998	1.00	0.00
ATOM 1556	1HB	GLU A 102	8.804	3.205	-0.432	1.00	0.00
ATOM 1557	2HB	GLU A 102	8.268	2.878	1.209	1.00	0.00
ATOM 1558	1HG	GLU A 102	9.739	4.528	1.660	1.00	0.00
ATOM 1559	2HG	GLU A 102	10.859	3.167	1.702	1.00	0.00
ATOM 1560	N	PHE A 103	7.595	0.015	-0.070	1.00	0.00
ATOM 1561	CA	PHE A 103	6.489	-0.879	0.254	1.00	0.00
ATOM 1562	C	PHE A 103	6.949	-2.333	0.277	1.00	0.00
ATOM 1563	O	PHE A 103	6.402	-3.155	1.013	1.00	0.00
ATOM 1564	CB	PHE A 103	5.356	-0.707	-0.758	1.00	0.00
ATOM 1565	CG	PHE A 103	4.145	-1.542	-0.454	1.00	0.00

ATOM 1566	CD1	PHE A 103	3.840	-2.653	-1.225	1.00	0.00
ATOM 1567	CD2	PHE A 103	3.312	-1.217	0.605	1.00	0.00
ATOM 1568	CE1	PHE A 103	2.727	-3.423	-0.947	1.00	0.00
ATOM 1569	CE2	PHE A 103	2.196	-1.984	0.888	1.00	0.00
ATOM 1570	CZ	PHE A 103	1.905	-3.088	0.112	1.00	0.00
ATOM 1571	H	PHE A 103	7.716	0.307	-0.997	1.00	0.00
ATOM 1572	HA	PHE A 103	6.125	-0.613	1.235	1.00	0.00
ATOM 1573	1HB	PHE A 103	5.048	0.327	-0.773	1.00	0.00
ATOM 1574	2HB	PHE A 103	5.714	-0.985	-1.740	1.00	0.00
ATOM 1575	HD1	PHE A 103	4.484	-2.916	-2.051	1.00	0.00
ATOM 1576	HD2	PHE A 103	3.539	-0.354	1.212	1.00	0.00
ATOM 1577	HE1	PHE A 103	2.501	-4.286	-1.556	1.00	0.00
ATOM 1578	HE2	PHE A 103	1.555	-1.720	1.715	1.00	0.00
ATOM 1579	HZ	PHE A 103	1.034	-3.688	0.331	1.00	0.00
ATOM 1580	N	LEU A 104	7.955	-2.645	-0.533	1.00	0.00
ATOM 1581	CA	LEU A 104	8.484	-4.002	-0.607	1.00	0.00
ATOM 1582	C	LEU A 104	9.332	-4.327	0.620	1.00	0.00
ATOM 1583	O	LEU A 104	9.382	-5.474	1.065	1.00	0.00
ATOM 1584	CB	LEU A 104	9.319	-4.176	-1.878	1.00	0.00
ATOM 1585	CG	LEU A 104	8.523	-4.148	-3.183	1.00	0.00
ATOM 1586	CD1	LEU A 104	9.431	-3.810	-4.355	1.00	0.00
ATOM 1587	CD2	LEU A 104	7.828	-5.483	-3.412	1.00	0.00
ATOM 1588	H	LEU A 104	8.348	-1.947	-1.097	1.00	0.00
ATOM 1589	HA	LEU A 104	7.647	-4.682	-0.641	1.00	0.00
ATOM 1590	1HB	LEU A 104	10.055	-3.386	-1.911	1.00	0.00
ATOM 1591	2HB	LEU A 104	9.835	-5.124	-1.817	1.00	0.00
ATOM 1592	HG	LEU A 104	7.763	-3.382	-3.118	1.00	0.00



ATOM 1593	1HD1	LEU	A	104	10.325	-3.327	-3.991	1.00	0.00
ATOM 1594	2HD1	LEU	A	104	8.914	-3.147	-5.032	1.00	0.00
ATOM 1595	3HD1	LEU	A	104	9.701	-4.718	-4.876	1.00	0.00
ATOM 1596	1HD2	LEU	A	104	8.376	-6.265	-2.908	1.00	0.00
ATOM 1597	2HD2	LEU	A	104	7.792	-5.692	-4.471	1.00	0.00
ATOM 1598	3HD2	LEU	A	104	6.823	-5.437	-3.019	1.00	0.00
ATOM 1599	N	ARG	A	105	10.001	-3.313	1.159	1.00	0.00
ATOM 1600	CA	ARG	A	105	10.849	-3.495	2.332	1.00	0.00
ATOM 1601	C	ARG	A	105	10.021	-3.873	3.557	1.00	0.00
ATOM 1602	O	ARG	A	105	10.436	-4.704	4.365	1.00	0.00
ATOM 1603	CB	ARG	A	105	11.646	-2.217	2.611	1.00	0.00
ATOM 1604	CG	ARG	A	105	13.146	-2.445	2.704	1.00	0.00
ATOM 1605	CD	ARG	A	105	13.829	-1.341	3.495	1.00	0.00
ATOM 1606	NE	ARG	A	105	15.223	-1.163	3.096	1.00	0.00
ATOM 1607	CZ	ARG	A	105	16.134	-0.542	3.840	1.00	0.00
ATOM 1608	NH1	ARG	A	105	15.804	-0.038	5.023	1.00	0.00
ATOM 1609	NH2	ARG	A	105	17.380	-0.426	3.402	1.00	0.00
ATOM 1610	H	ARG	A	105	9.923	-2.422	0.758	1.00	0.00
ATOM 1611	HA	ARG	A	105	11.539	-4.297	2.118	1.00	0.00
ATOM 1612	1HB	ARG	A	105	11.460	-1.510	1.817	1.00	0.00
ATOM 1613	2HB	ARG	A	105	11.309	-1.791	3.546	1.00	0.00
ATOM 1614	1HG	ARG	A	105	13.327	-3.389	3.194	1.00	0.00
ATOM 1615	2HG	ARG	A	105	13.558	-2.470	1.707	1.00	0.00
ATOM 1616	1HD	ARG	A	105	13.297	-0.416	3.331	1.00	0.00
ATOM 1617	2HD	ARG	A	105	13.794	-1.593	4.545	1.00	0.00
ATOM 1618	HE	ARG	A	105	15.494	-1.526	2.227	1.00	0.00
ATOM 1619	1HH1	ARG	A	105	14.867	-0.122	5.360	1.00	0.00

ATOM 1620	2HH1	ARG	A	105	16.494	0.428	5.578	1.00	0.00
ATOM 1621	1HH2	ARG	A	105	17.635	-0.804	2.512	1.00	0.00
ATOM 1622	2HH2	ARG	A	105	18.065	0.042	3.961	1.00	0.00
ATOM 1623	N	MET	A	106	8.851	-3.257	3.690	1.00	0.00
ATOM 1624	CA	MET	A	106	7.968	-3.529	4.819	1.00	0.00
ATOM 1625	C	MET	A	106	7.142	-4.790	4.583	1.00	0.00
ATOM 1626	O	MET	A	106	6.727	-5.457	5.530	1.00	0.00
ATOM 1627	CB	MET	A	106	7.042	-2.339	5.068	1.00	0.00
ATOM 1628	CG	MET	A	106	6.500	-2.278	6.487	1.00	0.00
ATOM 1629	SD	MET	A	106	7.291	-0.999	7.483	1.00	0.00
ATOM 1630	CE	MET	A	106	7.049	0.437	6.441	1.00	0.00
ATOM 1631	H	MET	A	106	8.576	-2.603	3.015	1.00	0.00
ATOM 1632	HA	MET	A	106	8.586	-3.679	5.692	1.00	0.00
ATOM 1633	1HB	MET	A	106	7.585	-1.426	4.872	1.00	0.00
ATOM 1634	2HB	MET	A	106	6.205	-2.402	4.389	1.00	0.00
ATOM 1635	1HG	MET	A	106	5.441	-2.077	6.445	1.00	0.00
ATOM 1636	2HG	MET	A	106	6.664	-3.236	6.960	1.00	0.00
ATOM 1637	1HE	MET	A	106	6.697	1.263	7.043	1.00	0.00
ATOM 1638	2HE	MET	A	106	6.318	0.211	5.679	1.00	0.00
ATOM 1639	3HE	MET	A	106	7.985	0.706	5.974	1.00	0.00
ATOM 1640	N	THR	A	107	6.904	-5.111	3.315	1.00	0.00
ATOM 1641	CA	THR	A	107	6.123	-6.291	2.961	1.00	0.00
ATOM 1642	C	THR	A	107	7.026	-7.493	2.690	1.00	0.00
ATOM 1643	O	THR	A	107	6.619	-8.448	2.029	1.00	0.00
ATOM 1644	CB	THR	A	107	5.259	-6.004	1.732	1.00	0.00
ATOM 1645	OG1	THR	A	107	6.065	-5.627	0.630	1.00	0.00
ATOM 1646	CG2	THR	A	107	4.245	-4.905	1.958	1.00	0.00

ATOM 1647	H	THR A 107	7.259	-4.541	2.601	1.00	0.00
ATOM 1648	HA	THR A 107	5.478	-6.523	3.794	1.00	0.00
ATOM 1649	HB	THR A 107	4.720	-6.903	1.466	1.00	0.00
ATOM 1650	HG1	THR A 107	5.505	-5.421	-0.122	1.00	0.00
ATOM 1651	1HG2	THR A 107	4.393	-4.123	1.229	1.00	0.00
ATOM 1652	2HG2	THR A 107	4.368	-4.500	2.951	1.00	0.00
ATOM 1653	3HG2	THR A 107	3.248	-5.309	1.856	1.00	0.00
ATOM 1654	N	HIS A 108	8.253	-7.443	3.205	1.00	0.00
ATOM 1655	CA	HIS A 108	9.207	-8.531	3.016	1.00	0.00
ATOM 1656	C	HIS A 108	9.330	-8.902	1.540	1.00	0.00
ATOM 1657	O	HIS A 108	8.924	-9.987	1.125	1.00	0.00
ATOM 1658	CB	HIS A 108	8.783	-9.756	3.830	1.00	0.00
ATOM 1659	CG	HIS A 108	8.791	-9.524	5.309	1.00	0.00
ATOM 1660	ND1	HIS A 108	7.931	-10.163	6.176	1.00	0.00
ATOM 1661	CD2	HIS A 108	9.565	-8.718	6.075	1.00	0.00
ATOM 1662	CE1	HIS A 108	8.174	-9.759	7.411	1.00	0.00
ATOM 1663	NE2	HIS A 108	9.160	-8.883	7.377	1.00	0.00
ATOM 1664	H	HIS A 108	8.524	-6.658	3.725	1.00	0.00
ATOM 1665	HA	HIS A 108	10.169	-8.192	3.370	1.00	0.00
ATOM 1666	1HB	HIS A 108	7.781	-10.040	3.544	1.00	0.00
ATOM 1667	2HB	HIS A 108	9.457	-10.572	3.616	1.00	0.00
ATOM 1668	HD1	HIS A 108	7.244	-10.815	5.925	1.00	0.00
ATOM 1669	HD2	HIS A 108	10.354	-8.066	5.727	1.00	0.00
ATOM 1670	HE1	HIS A 108	7.653	-10.091	8.298	1.00	0.00
ATOM 1671	HE2	HIS A 108	9.598	-8.495	8.162	1.00	0.00
ATOM 1672	N	ASN A 109	9.890	-7.990	0.751	1.00	0.00
ATOM 1673	CA	ASN A 109	10.063	-8.220	-0.678	1.00	0.00

ATOM 1674	C	ASN A 109	8.715	-8.425	-1.361	1.00	0.00
ATOM 1675	O	ASN A 109	8.611	-9.157	-2.346	1.00	0.00
ATOM 1676	CB	ASN A 109	10.960	-9.436	-0.917	1.00	0.00
ATOM 1677	CG	ASN A 109	12.434	-9.090	-0.837	1.00	0.00
ATOM 1678	OD1	ASN A 109	12.843	-7.982	-1.182	1.00	0.00
ATOM 1679	ND2	ASN A 109	13.241	-10.042	-0.382	1.00	0.00
ATOM 1680	H	ASN A 109	10.192	-7.143	1.139	1.00	0.00
ATOM 1681	HA	ASN A 109	10.537	-7.346	-1.100	1.00	0.00
ATOM 1682	1HB	ASN A 109	10.745	-10.186	-0.172	1.00	0.00
ATOM 1683	2HB	ASN A 109	10.755	-9.840	-1.898	1.00	0.00
ATOM 1684	1HD2	ASN A 109	12.846	-10.902	-0.128	1.00	0.00
ATOM 1685	2HD2	ASN A 109	14.199	-9.846	-0.321	1.00	0.00
ATOM 1686	N	GLY A 110	7.684	-7.776	-0.830	1.00	0.00
ATOM 1687	CA	GLY A 110	6.355	-7.900	-1.400	1.00	0.00
ATOM 1688	C	GLY A 110	5.835	-9.323	-1.351	1.00	0.00
ATOM 1689	O	GLY A 110	5.672	-9.968	-2.387	1.00	0.00
ATOM 1690	H	GLY A 110	7.827	-7.207	-0.045	1.00	0.00
ATOM 1691	1HA	GLY A 110	5.678	-7.262	-0.852	1.00	0.00
ATOM 1692	2HA	GLY A 110	6.385	-7.575	-2.429	1.00	0.00
ATOM 1693	N	THR A 111	5.576	-9.816	-0.144	1.00	0.00
ATOM 1694	CA	THR A 111	5.074	-11.174	0.033	1.00	0.00
ATOM 1695	C	THR A 111	3.963	-11.215	1.077	1.00	0.00
ATOM 1696	O	THR A 111	2.923	-11.840	0.864	1.00	0.00
ATOM 1697	CB	THR A 111	6.209	-12.110	0.445	1.00	0.00
ATOM 1698	OG1	THR A 111	6.874	-11.619	1.595	1.00	0.00
ATOM 1699	CG2	THR A 111	7.249	-12.303	-0.639	1.00	0.00
ATOM 1700	H	THR A 111	5.727	-9.254	0.645	1.00	0.00

ATOM 1701	HA	THR A 111	4.673	-11.504	-0.914	1.00	0.00
ATOM 1702	HB	THR A 111	5.794	-13.079	0.680	1.00	0.00
ATOM 1703	HG1	THR A 111	6.922	-12.312	2.258	1.00	0.00
ATOM 1704	1HG2	THR A 111	6.919	-11.816	-1.544	1.00	0.00
ATOM 1705	2HG2	THR A 111	7.382	-13.358	-0.826	1.00	0.00
ATOM 1706	3HG2	THR A 111	8.186	-11.873	-0.319	1.00	0.00
ATOM 1707	N	GLN A 112	4.189	-10.553	2.206	1.00	0.00
ATOM 1708	CA	GLN A 112	3.204	-10.523	3.282	1.00	0.00
ATOM 1709	C	GLN A 112	2.974	-9.099	3.779	1.00	0.00
ATOM 1710	O	GLN A 112	3.789	-8.550	4.520	1.00	0.00
ATOM 1711	CB	GLN A 112	3.660	-11.411	4.441	1.00	0.00
ATOM 1712	CG	GLN A 112	2.513	-11.968	5.268	1.00	0.00
ATOM 1713	CD	GLN A 112	2.936	-12.340	6.676	1.00	0.00
ATOM 1714	OE1	GLN A 112	3.979	-12.962	6.878	1.00	0.00
ATOM 1715	NE2	GLN A 112	2.127	-11.961	7.657	1.00	0.00
ATOM 1716	H	GLN A 112	5.037	-10.076	2.320	1.00	0.00
ATOM 1717	HA	GLN A 112	2.276	-10.908	2.891	1.00	0.00
ATOM 1718	1HB	GLN A 112	4.225	-12.241	4.043	1.00	0.00
ATOM 1719	2HB	GLN A 112	4.297	-10.833	5.093	1.00	0.00
ATOM 1720	1HG	GLN A 112	1.733	-11.223	5.329	1.00	0.00
ATOM 1721	2HG	GLN A 112	2.128	-12.851	4.777	1.00	0.00
ATOM 1722	1HE2	GLN A 112	1.312	-11.469	7.421	1.00	0.00
ATOM 1723	2HE2	GLN A 112	2.375	-12.188	8.578	1.00	0.00
ATOM 1724	N	LEU A 113	1.854	-8.509	3.373	1.00	0.00
ATOM 1725	CA	LEU A 113	1.513	-7.153	3.783	1.00	0.00
ATOM 1726	C	LEU A 113	0.749	-7.166	5.104	1.00	0.00
ATOM 1727	O	LEU A 113	-0.480	-7.211	5.121	1.00	0.00

ATOM 1728	CB	LEU A 113	0.680	-6.462	2.698	1.00	0.00
ATOM 1729	CG	LEU A 113	0.273	-5.010	2.992	1.00	0.00
ATOM 1730	CD1	LEU A 113	-1.054	-4.966	3.731	1.00	0.00
ATOM 1731	CD2	LEU A 113	1.353	-4.290	3.790	1.00	0.00
ATOM 1732	H	LEU A 113	1.240	-9.000	2.786	1.00	0.00
ATOM 1733	HA	LEU A 113	2.435	-6.607	3.920	1.00	0.00
ATOM 1734	1HB	LEU A 113	1.248	-6.473	1.779	1.00	0.00
ATOM 1735	2HB	LEU A 113	-0.222	-7.037	2.548	1.00	0.00
ATOM 1736	HG	LEU A 113	0.146	-4.486	2.055	1.00	0.00
ATOM 1737	1HD1	LEU A 113	-1.584	-4.063	3.465	1.00	0.00
ATOM 1738	2HD1	LEU A 113	-0.875	-4.978	4.795	1.00	0.00
ATOM 1739	3HD1	LEU A 113	-1.649	-5.825	3.456	1.00	0.00
ATOM 1740	1HD2	LEU A 113	1.193	-4.458	4.844	1.00	0.00
ATOM 1741	2HD2	LEU A 113	1.306	-3.231	3.583	1.00	0.00
ATOM 1742	3HD2	LEU A 113	2.323	-4.670	3.507	1.00	0.00
ATOM 1743	N	LEU A 114	1.490	-7.132	6.208	1.00	0.00
ATOM 1744	CA	LEU A 114	0.889	-7.145	7.538	1.00	0.00
ATOM 1745	C	LEU A 114	0.089	-8.426	7.767	1.00	0.00
ATOM 1746	O	LEU A 114	0.573	-9.365	8.398	1.00	0.00
ATOM 1747	CB	LEU A 114	-0.010	-5.921	7.729	1.00	0.00
ATOM 1748	CG	LEU A 114	0.733	-4.595	7.908	1.00	0.00
ATOM 1749	CD1	LEU A 114	-0.251	-3.464	8.172	1.00	0.00
ATOM 1750	CD2	LEU A 114	1.744	-4.701	9.040	1.00	0.00
ATOM 1751	H	LEU A 114	2.466	-7.101	6.127	1.00	0.00
ATOM 1752	HA	LEU A 114	1.691	-7.105	8.260	1.00	0.00
ATOM 1753	1HB	LEU A 114	-0.654	-5.836	6.865	1.00	0.00
ATOM 1754	2HB	LEU A 114	-0.624	-6.084	8.601	1.00	0.00

ATOM 1755	HG	LEU A 114	1.269	-4.365	6.999	1.00	0.00
ATOM 1756	1HD1	LEU A 114	-1.187	-3.875	8.520	1.00	0.00
ATOM 1757	2HD1	LEU A 114	-0.417	-2.912	7.259	1.00	0.00
ATOM 1758	3HD1	LEU A 114	0.155	-2.803	8.924	1.00	0.00
ATOM 1759	1HD2	LEU A 114	2.709	-4.969	8.636	1.00	0.00
ATOM 1760	2HD2	LEU A 114	1.424	-5.460	9.740	1.00	0.00
ATOM 1761	3HD2	LEU A 114	1.818	-3.751	9.548	1.00	0.00
ATOM 1762	N	ASN A 115	-1.135	-8.458	7.249	1.00	0.00
ATOM 1763	CA	ASN A 115	-1.998	-9.625	7.399	1.00	0.00
ATOM 1764	C	ASN A 115	-2.653	-9.990	6.071	1.00	0.00
ATOM 1765	O	ASN A 115	-3.788	-10.465	6.037	1.00	0.00
ATOM 1766	CB	ASN A 115	-3.071	-9.360	8.456	1.00	0.00
ATOM 1767	CG	ASN A 115	-3.783	-10.627	8.887	1.00	0.00
ATOM 1768	OD1	ASN A 115	-3.258	-11.409	9.679	1.00	0.00
ATOM 1769	ND2	ASN A 115	-4.986	-10.837	8.365	1.00	0.00
ATOM 1770	H	ASN A 115	-1.466	-7.679	6.755	1.00	0.00
ATOM 1771	HA	ASN A 115	-1.383	-10.451	7.722	1.00	0.00
ATOM 1772	1HB	ASN A 115	-2.611	-8.915	9.325	1.00	0.00
ATOM 1773	2HB	ASN A 115	-3.804	-8.676	8.052	1.00	0.00
ATOM 1774	1HD2	ASN A 115	-5.342	-10.172	7.741	1.00	0.00
ATOM 1775	2HD2	ASN A 115	-5.469	-11.649	8.628	1.00	0.00
ATOM 1776	N	PHE A 116	-1.931	-9.765	4.978	1.00	0.00
ATOM 1777	CA	PHE A 116	-2.443	-10.070	3.647	1.00	0.00
ATOM 1778	C	PHE A 116	-1.310	-10.471	2.707	1.00	0.00
ATOM 1779	O	PHE A 116	-0.620	-9.617	2.150	1.00	0.00
ATOM 1780	CB	PHE A 116	-3.190	-8.864	3.076	1.00	0.00
ATOM 1781	CG	PHE A 116	-4.611	-8.757	3.553	1.00	0.00

ATOM 1782	CD1	PHE A 116	-4.897	-8.268	4.818	1.00	0.00
ATOM 1783	CD2	PHE A 116	-5.661	-9.148	2.736	1.00	0.00
ATOM 1784	CE1	PHE A 116	-6.203	-8.169	5.258	1.00	0.00
ATOM 1785	CE2	PHE A 116	-6.969	-9.050	3.172	1.00	0.00
ATOM 1786	CZ	PHE A 116	-7.240	-8.560	4.435	1.00	0.00
ATOM 1787	H	PHE A 116	-1.032	-9.384	5.069	1.00	0.00
ATOM 1788	HA	PHE A 116	-3.130	-10.899	3.739	1.00	0.00
ATOM 1789	1HB	PHE A 116	-2.675	-7.960	3.365	1.00	0.00
ATOM 1790	2HB	PHE A 116	-3.205	-8.935	1.998	1.00	0.00
ATOM 1791	HD1	PHE A 116	-4.086	-7.961	5.462	1.00	0.00
ATOM 1792	HD2	PHE A 116	-5.450	-9.531	1.749	1.00	0.00
ATOM 1793	HE1	PHE A 116	-6.411	-7.785	6.246	1.00	0.00
ATOM 1794	HE2	PHE A 116	-7.778	-9.358	2.525	1.00	0.00
ATOM 1795	HZ	PHE A 116	-8.261	-8.484	4.777	1.00	0.00
ATOM 1796	N	THR A 117	-1.125	-11.776	2.534	1.00	0.00
ATOM 1797	CA	THR A 117	-0.077	-12.290	1.659	1.00	0.00
ATOM 1798	C	THR A 117	-0.356	-11.924	0.206	1.00	0.00
ATOM 1799	O	THR A 117	-1.372	-12.325	-0.361	1.00	0.00
ATOM 1800	CB	THR A 117	0.038	-13.808	1.803	1.00	0.00
ATOM 1801	OG1	THR A 117	-1.065	-14.456	1.196	1.00	0.00
ATOM 1802	CG2	THR A 117	0.105	-14.270	3.243	1.00	0.00
ATOM 1803	H	THR A 117	-1.708	-12.409	3.003	1.00	0.00
ATOM 1804	HA	THR A 117	0.855	-11.837	1.959	1.00	0.00
ATOM 1805	HB	THR A 117	0.940	-14.139	1.308	1.00	0.00
ATOM 1806	HG1	THR A 117	-1.029	-14.328	0.245	1.00	0.00
ATOM 1807	1HG2	THR A 117	-0.284	-13.495	3.887	1.00	0.00
ATOM 1808	2HG2	THR A 117	1.132	-14.475	3.508	1.00	0.00



ATOM 1809	3HG2	THR	A	117	-0.484	-15.167	3.362	1.00	0.00
ATOM 1810	N	LEU	A	118	0.552	-11.158	-0.393	1.00	0.00
ATOM 1811	CA	LEU	A	118	0.398	-10.739	-1.780	1.00	0.00
ATOM 1812	C	LEU	A	118	1.684	-10.974	-2.569	1.00	0.00
ATOM 1813	O	LEU	A	118	2.764	-11.103	-1.993	1.00	0.00
ATOM 1814	CB	LEU	A	118	-0.003	-9.264	-1.848	1.00	0.00
ATOM 1815	CG	LEU	A	118	0.969	-8.290	-1.182	1.00	0.00
ATOM 1816	CD1	LEU	A	118	2.012	-7.810	-2.177	1.00	0.00
ATOM 1817	CD2	LEU	A	118	0.213	-7.111	-0.587	1.00	0.00
ATOM 1818	H	LEU	A	118	1.342	-10.869	0.111	1.00	0.00
ATOM 1819	HA	LEU	A	118	-0.387	-11.335	-2.218	1.00	0.00
ATOM 1820	1HB	LEU	A	118	-0.101	-8.987	-2.887	1.00	0.00
ATOM 1821	2HB	LEU	A	118	-0.967	-9.155	-1.372	1.00	0.00
ATOM 1822	HG	LEU	A	118	1.484	-8.797	-0.379	1.00	0.00
ATOM 1823	1HD1	LEU	A	118	2.239	-6.770	-1.989	1.00	0.00
ATOM 1824	2HD1	LEU	A	118	1.626	-7.916	-3.181	1.00	0.00
ATOM 1825	3HD1	LEU	A	118	2.909	-8.400	-2.072	1.00	0.00
ATOM 1826	1HD2	LEU	A	118	-0.002	-7.308	0.453	1.00	0.00
ATOM 1827	2HD2	LEU	A	118	-0.711	-6.969	-1.126	1.00	0.00
ATOM 1828	3HD2	LEU	A	118	0.817	-6.220	-0.667	1.00	0.00
ATOM 1829	N	ASP	A	119	1.556	-11.036	-3.891	1.00	0.00
ATOM 1830	CA	ASP	A	119	2.703	-11.264	-4.763	1.00	0.00
ATOM 1831	C	ASP	A	119	3.593	-10.027	-4.839	1.00	0.00
ATOM 1832	O	ASP	A	119	3.244	-8.965	-4.322	1.00	0.00
ATOM 1833	CB	ASP	A	119	2.232	-11.653	-6.166	1.00	0.00
ATOM 1834	CG	ASP	A	119	3.108	-12.720	-6.794	1.00	0.00
ATOM 1835	OD1	ASP	A	119	3.548	-12.524	-7.947	1.00	0.00

ATOM 1836	OD2	ASP A 119	3.353	-13.751	-6.133	1.00	0.00
ATOM 1837	H	ASP A 119	0.666	-10.930	-4.290	1.00	0.00
ATOM 1838	HA	ASP A 119	3.277	-12.079	-4.348	1.00	0.00
ATOM 1839	1HB	ASP A 119	1.223	-12.032	-6.108	1.00	0.00
ATOM 1840	2HB	ASP A 119	2.250	-10.779	-6.800	1.00	0.00
ATOM 1841	N	ARG A 120	4.744	-10.173	-5.487	1.00	0.00
ATOM 1842	CA	ARG A 120	5.686	-9.070	-5.633	1.00	0.00
ATOM 1843	C	ARG A 120	5.736	-8.583	-7.078	1.00	0.00
ATOM 1844	O	ARG A 120	5.622	-7.387	-7.345	1.00	0.00
ATOM 1845	CB	ARG A 120	7.082	-9.503	-5.181	1.00	0.00
ATOM 1846	CG	ARG A 120	8.123	-8.399	-5.277	1.00	0.00
ATOM 1847	CD	ARG A 120	9.415	-8.900	-5.902	1.00	0.00
ATOM 1848	NE	ARG A 120	9.356	-8.889	-7.362	1.00	0.00
ATOM 1849	CZ	ARG A 120	9.515	-7.795	-8.102	1.00	0.00
ATOM 1850	NH1	ARG A 120	9.744	-6.622	-7.525	1.00	0.00
ATOM 1851	NH2	ARG A 120	9.447	-7.873	-9.424	1.00	0.00
ATOM 1852	H	ARG A 120	4.965	-11.045	-5.878	1.00	0.00
ATOM 1853	HA	ARG A 120	5.349	-8.260	-5.004	1.00	0.00
ATOM 1854	1HB	ARG A 120	7.030	-9.832	-4.153	1.00	0.00
ATOM 1855	2HB	ARG A 120	7.406	-10.329	-5.797	1.00	0.00
ATOM 1856	1HG	ARG A 120	7.729	-7.598	-5.884	1.00	0.00
ATOM 1857	2HG	ARG A 120	8.334	-8.031	-4.283	1.00	0.00
ATOM 1858	1HD	ARG A 120	10.226	-8.265	-5.580	1.00	0.00
ATOM 1859	2HD	ARG A 120	9.595	-9.911	-5.566	1.00	0.00
ATOM 1860	HE	ARG A 120	9.190	-9.742	-7.815	1.00	0.00
ATOM 1861	1HH1	ARG A 120	9.797	-6.556	-6.527	1.00	0.00
ATOM 1862	2HH1	ARG A 120	9.862	-5.803	-8.086	1.00	0.00

ATOM	1863	1HH2	ARG	A	120	9.276	-8.755	-9.864	1.00	0.00
ATOM	1864	2HH2	ARG	A	120	9.567	-7.050	-9.981	1.00	0.00
ATOM	1865	N	LYS	A	121	5.909	-9.519	-8.006	1.00	0.00
ATOM	1866	CA	LYS	A	121	5.976	-9.186	-9.425	1.00	0.00
ATOM	1867	C	LYS	A	121	4.702	-8.484	-9.882	1.00	0.00
ATOM	1868	O	LYS	A	121	4.743	-7.596	-10.736	1.00	0.00
ATOM	1869	CB	LYS	A	121	6.201	-10.451	-10.255	1.00	0.00
ATOM	1870	CG	LYS	A	121	7.494	-11.177	-9.921	1.00	0.00
ATOM	1871	CD	LYS	A	121	8.017	-11.963	-11.113	1.00	0.00
ATOM	1872	CE	LYS	A	121	9.532	-11.891	-11.206	1.00	0.00
ATOM	1873	NZ	LYS	A	121	10.046	-12.560	-12.432	1.00	0.00
ATOM	1874	H	LYS	A	121	5.994	-10.455	-7.731	1.00	0.00
ATOM	1875	HA	LYS	A	121	6.812	-8.519	-9.569	1.00	0.00
ATOM	1876	1HB	LYS	A	121	5.378	-11.130	-10.087	1.00	0.00
ATOM	1877	2HB	LYS	A	121	6.225	-10.182	-11.301	1.00	0.00
ATOM	1878	1HG	LYS	A	121	8.237	-10.451	-9.627	1.00	0.00
ATOM	1879	2HG	LYS	A	121	7.310	-11.859	-9.104	1.00	0.00
ATOM	1880	1HD	LYS	A	121	7.721	-12.995	-11.008	1.00	0.00
ATOM	1881	2HD	LYS	A	121	7.589	-11.553	-12.017	1.00	0.00
ATOM	1882	1HE	LYS	A	121	9.831	-10.853	-11.221	1.00	0.00
ATOM	1883	2HE	LYS	A	121	9.956	-12.374	-10.337	1.00	0.00
ATOM	1884	1HZ	LYS	A	121	10.344	-13.532	-12.212	1.00	0.00
ATOM	1885	2HZ	LYS	A	121	10.861	-12.038	-12.810	1.00	0.00
ATOM	1886	3HZ	LYS	A	121	9.302	-12.594	-13.159	1.00	0.00
ATOM	1887	N	SER	A	122	3.572	-8.885	-9.311	1.00	0.00
ATOM	1888	CA	SER	A	122	2.286	-8.294	-9.662	1.00	0.00
ATOM	1889	C	SER	A	122	2.238	-6.823	-9.261	1.00	0.00

ATOM 1890	O	SER A 122	1.629	-6.001	-9.947	1.00	0.00
ATOM 1891	CB	SER A 122	1.147	-9.056	-8.983	1.00	0.00
ATOM 1892	OG	SER A 122	1.220	-8.936	-7.574	1.00	0.00
ATOM 1893	H	SER A 122	3.603	-9.597	-8.638	1.00	0.00
ATOM 1894	HA	SER A 122	2.168	-8.366	-10.732	1.00	0.00
ATOM 1895	1HB	SER A 122	0.200	-8.660	-9.317	1.00	0.00
ATOM 1896	2HB	SER A 122	1.211	-10.103	-9.246	1.00	0.00
ATOM 1897	HG	SER A 122	1.157	-8.010	-7.328	1.00	0.00
ATOM 1898	N	VAL A 123	2.881	-6.497	-8.145	1.00	0.00
ATOM 1899	CA	VAL A 123	2.912	-5.125	-7.651	1.00	0.00
ATOM 1900	C	VAL A 123	3.557	-4.189	-8.668	1.00	0.00
ATOM 1901	O	VAL A 123	4.460	-4.584	-9.405	1.00	0.00
ATOM 1902	CB	VAL A 123	3.678	-5.024	-6.319	1.00	0.00
ATOM 1903	CG1	VAL A 123	3.526	-3.634	-5.718	1.00	0.00
ATOM 1904	CG2	VAL A 123	3.202	-6.093	-5.346	1.00	0.00
ATOM 1905	H	VAL A 123	3.348	-7.197	-7.641	1.00	0.00
ATOM 1906	HA	VAL A 123	1.893	-4.810	-7.482	1.00	0.00
ATOM 1907	HB	VAL A 123	4.727	-5.191	-6.518	1.00	0.00
ATOM 1908	1HG1	VAL A 123	3.360	-3.717	-4.654	1.00	0.00
ATOM 1909	2HG1	VAL A 123	2.686	-3.133	-6.175	1.00	0.00
ATOM 1910	3HG1	VAL A 123	4.425	-3.064	-5.898	1.00	0.00
ATOM 1911	1HG2	VAL A 123	2.295	-6.544	-5.720	1.00	0.00
ATOM 1912	2HG2	VAL A 123	3.009	-5.644	-4.383	1.00	0.00
ATOM 1913	3HG2	VAL A 123	3.964	-6.851	-5.242	1.00	0.00
ATOM 1914	N	PHE A 124	3.089	-2.946	-8.700	1.00	0.00
ATOM 1915	CA	PHE A 124	3.620	-1.951	-9.624	1.00	0.00
ATOM 1916	C	PHE A 124	3.014	-0.579	-9.351	1.00	0.00

ATOM 1917	O	PHE A 124	1.809	-0.453	-9.134	1.00	0.00
ATOM 1918	CB	PHE A 124	3.341	-2.366	-11.070	1.00	0.00
ATOM 1919	CG	PHE A 124	3.977	-1.462	-12.085	1.00	0.00
ATOM 1920	CD1	PHE A 124	5.168	-1.817	-12.700	1.00	0.00
ATOM 1921	CD2	PHE A 124	3.384	-0.257	-12.428	1.00	0.00
ATOM 1922	CE1	PHE A 124	5.756	-0.986	-13.635	1.00	0.00
ATOM 1923	CE2	PHE A 124	3.966	0.577	-13.362	1.00	0.00
ATOM 1924	CZ	PHE A 124	5.154	0.213	-13.967	1.00	0.00
ATOM 1925	H	PHE A 124	2.368	-2.691	-8.086	1.00	0.00
ATOM 1926	HA	PHE A 124	4.688	-1.897	-9.474	1.00	0.00
ATOM 1927	1HB	PHE A 124	3.721	-3.364	-11.230	1.00	0.00
ATOM 1928	2HB	PHE A 124	2.274	-2.360	-11.239	1.00	0.00
ATOM 1929	HD1	PHE A 124	5.638	-2.753	-12.441	1.00	0.00
ATOM 1930	HD2	PHE A 124	2.456	0.029	-11.955	1.00	0.00
ATOM 1931	HE1	PHE A 124	6.684	-1.274	-14.106	1.00	0.00
ATOM 1932	HE2	PHE A 124	3.494	1.514	-13.619	1.00	0.00
ATOM 1933	HZ	PHE A 124	5.612	0.863	-14.698	1.00	0.00
ATOM 1934	N	VAL A 125	3.858	0.448	-9.363	1.00	0.00
ATOM 1935	CA	VAL A 125	3.405	1.811	-9.115	1.00	0.00
ATOM 1936	C	VAL A 125	3.748	2.725	-10.287	1.00	0.00
ATOM 1937	O	VAL A 125	4.852	2.667	-10.831	1.00	0.00
ATOM 1938	CB	VAL A 125	4.026	2.383	-7.824	1.00	0.00
ATOM 1939	CG1	VAL A 125	5.540	2.469	-7.947	1.00	0.00
ATOM 1940	CG2	VAL A 125	3.429	3.746	-7.501	1.00	0.00
ATOM 1941	H	VAL A 125	4.808	0.284	-9.541	1.00	0.00
ATOM 1942	HA	VAL A 125	2.332	1.788	-8.993	1.00	0.00
ATOM 1943	HB	VAL A 125	3.792	1.712	-7.011	1.00	0.00

ATOM	1944	1HG1	VAL	A	125	5.808	3.375	-8.472	1.00	0.00
ATOM	1945	2HG1	VAL	A	125	5.905	1.614	-8.496	1.00	0.00
ATOM	1946	3HG1	VAL	A	125	5.982	2.479	-6.962	1.00	0.00
ATOM	1947	1HG2	VAL	A	125	4.210	4.410	-7.162	1.00	0.00
ATOM	1948	2HG2	VAL	A	125	2.686	3.639	-6.725	1.00	0.00
ATOM	1949	3HG2	VAL	A	125	2.968	4.156	-8.388	1.00	0.00
ATOM	1950	N	ASP	A	126	2.796	3.570	-10.672	1.00	0.00
ATOM	1951	CA	ASP	A	126	2.999	4.496	-11.780	1.00	0.00
ATOM	1952	C	ASP	A	126	2.455	5.880	-11.439	1.00	0.00
ATOM	1953	O	ASP	A	126	2.058	6.140	-10.303	1.00	0.00
ATOM	1954	CB	ASP	A	126	2.320	3.967	-13.045	1.00	0.00
ATOM	1955	CG	ASP	A	126	3.140	4.227	-14.293	1.00	0.00
ATOM	1956	OD1	ASP	A	126	4.321	3.821	-14.322	1.00	0.00
ATOM	1957	OD2	ASP	A	126	2.601	4.836	-15.241	1.00	0.00
ATOM	1958	H	ASP	A	126	1.937	3.568	-10.200	1.00	0.00
ATOM	1959	HA	ASP	A	126	4.060	4.573	-11.957	1.00	0.00
ATOM	1960	1HB	ASP	A	126	2.174	2.902	-12.948	1.00	0.00
ATOM	1961	2HB	ASP	A	126	1.360	4.448	-13.159	1.00	0.00
ATOM	1962	N	SER	A	127	2.439	6.764	-12.431	1.00	0.00
ATOM	1963	CA	SER	A	127	1.944	8.122	-12.238	1.00	0.00
ATOM	1964	C	SER	A	127	0.530	8.269	-12.792	1.00	0.00
ATOM	1965	O	SER	A	127	0.273	7.966	-13.956	1.00	0.00
ATOM	1966	CB	SER	A	127	2.876	9.128	-12.917	1.00	0.00
ATOM	1967	OG	SER	A	127	2.856	8.974	-14.325	1.00	0.00
ATOM	1968	H	SER	A	127	2.768	6.497	-13.315	1.00	0.00
ATOM	1969	HA	SER	A	127	1.926	8.320	-11.177	1.00	0.00
ATOM	1970	1HB	SER	A	127	2.559	10.131	-12.673	1.00	0.00

ATOM 1971	2HB	SER A 127	3.885	8.975	-12.564	1.00	0.00
ATOM 1972	HG	SER A 127	3.301	8.157	-14.564	1.00	0.00
ATOM 1973	N	GLY A 128	-0.384	8.734	-11.947	1.00	0.00
ATOM 1974	CA	GLY A 128	-1.762	8.911	-12.368	1.00	0.00
ATOM 1975	C	GLY A 128	-1.920	10.024	-13.387	1.00	0.00
ATOM 1976	O	GLY A 128	-2.000	9.761	-14.587	1.00	0.00
ATOM 1977	H	GLY A 128	-0.123	8.958	-11.030	1.00	0.00
ATOM 1978	1HA	GLY A 128	-2.115	7.988	-12.802	1.00	0.00
ATOM 1979	2HA	GLY A 128	-2.364	9.143	-11.502	1.00	0.00
ATOM 1980	N	PRO A 129	-1.969	11.289	-12.936	1.00	0.00
ATOM 1981	CA	PRO A 129	-2.121	12.443	-13.829	1.00	0.00
ATOM 1982	C	PRO A 129	-0.911	12.632	-14.739	1.00	0.00
ATOM 1983	O	PRO A 129	0.147	13.076	-14.295	1.00	0.00
ATOM 1984	CB	PRO A 129	-2.257	13.628	-12.868	1.00	0.00
ATOM 1985	CG	PRO A 129	-1.619	13.170	-11.602	1.00	0.00
ATOM 1986	CD	PRO A 129	-1.882	11.693	-11.521	1.00	0.00
ATOM 1987	HA	PRO A 129	-3.013	12.361	-14.432	1.00	0.00
ATOM 1988	1HB	PRO A 129	-1.748	14.488	-13.279	1.00	0.00
ATOM 1989	2HB	PRO A 129	-3.302	13.858	-12.722	1.00	0.00
ATOM 1990	1HG	PRO A 129	-0.556	13.360	-11.637	1.00	0.00
ATOM 1991	2HG	PRO A 129	-2.066	13.677	-10.761	1.00	0.00
ATOM 1992	1HD	PRO A 129	-1.065	11.188	-11.026	1.00	0.00
ATOM 1993	2HD	PRO A 129	-2.813	11.503	-11.008	1.00	0.00
ATOM 1994	N	SER A 130	-1.077	12.293	-16.012	1.00	0.00
ATOM 1995	CA	SER A 130	0.001	12.426	-16.985	1.00	0.00
ATOM 1996	C	SER A 130	-0.551	12.516	-18.405	1.00	0.00
ATOM 1997	O	SER A 130	0.119	12.138	-19.365	1.00	0.00

ATOM	1998	CB	SER A 130	0.964	11.243	-16.874	1.00	0.00
ATOM	1999	OG	SER A 130	0.979	10.720	-15.557	1.00	0.00
ATOM	2000	H	SER A 130	-1.945	11.945	-16.306	1.00	0.00
ATOM	2001	HA	SER A 130	0.537	13.337	-16.762	1.00	0.00
ATOM	2002	1HB	SER A 130	0.653	10.464	-17.553	1.00	0.00
ATOM	2003	2HB	SER A 130	1.961	11.568	-17.131	1.00	0.00
ATOM	2004	HG	SER A 130	1.696	10.087	-15.472	1.00	0.00
ATOM	2005	N	SER A 131	-1.775	13.019	-18.530	1.00	0.00
ATOM	2006	CA	SER A 131	-2.416	13.159	-19.834	1.00	0.00
ATOM	2007	C	SER A 131	-2.486	11.815	-20.555	1.00	0.00
ATOM	2008	O	SER A 131	-1.646	11.508	-21.399	1.00	0.00
ATOM	2009	CB	SER A 131	-1.656	14.172	-20.692	1.00	0.00
ATOM	2010	OG	SER A 131	-2.226	15.465	-20.579	1.00	0.00
ATOM	2011	H	SER A 131	-2.260	13.305	-17.728	1.00	0.00
ATOM	2012	HA	SER A 131	-3.420	13.519	-19.672	1.00	0.00
ATOM	2013	1HB	SER A 131	-0.627	14.216	-20.366	1.00	0.00
ATOM	2014	2HB	SER A 131	-1.693	13.864	-21.727	1.00	0.00
ATOM	2015	HG	SER A 131	-2.417	15.651	-19.658	1.00	0.00
ATOM	2016	N	GLY A 132	-3.494	11.019	-20.214	1.00	0.00
ATOM	2017	CA	GLY A 132	-3.656	9.718	-20.839	1.00	0.00
ATOM	2018	C	GLY A 132	-5.014	9.105	-20.559	1.00	0.00
ATOM	2019	H	GLY A 132	-4.134	11.316	-19.534	1.00	0.00
ATOM	2020	1HA	GLY A 132	-3.534	9.827	-21.907	1.00	0.00
ATOM	2021	2HA	GLY A 132	-2.889	9.055	-20.466	1.00	0.00
TER	2022		GLY A 132					

ENDMDL

Three-Dimensional Structure Coordinate 2



ATOM 1	N	GLY A	1	6.358	26.229	-0.546	1.00	0.00
ATOM 2	CA	GLY A	1	5.432	26.589	0.563	1.00	0.00
ATOM 3	C	GLY A	1	5.871	27.839	1.302	1.00	0.00
ATOM 4	O	GLY A	1	6.624	27.761	2.274	1.00	0.00
ATOM 5	1H	GLY A	1	7.319	26.083	-0.176	1.00	0.00
ATOM 6	2H	GLY A	1	6.383	26.991	-1.253	1.00	0.00
ATOM 7	3H	GLY A	1	6.039	25.353	-1.008	1.00	0.00
ATOM 8	1HA	GLY A	1	4.446	26.755	0.155	1.00	0.00
ATOM 9	2HA	GLY A	1	5.388	25.767	1.262	1.00	0.00
ATOM 10	N	SER A	2	5.399	28.992	0.842	1.00	0.00
ATOM 11	CA	SER A	2	5.746	30.265	1.464	1.00	0.00
ATOM 12	C	SER A	2	4.712	31.333	1.124	1.00	0.00
ATOM 13	O	SER A	2	4.243	32.059	1.999	1.00	0.00
ATOM 14	CB	SER A	2	7.134	30.719	1.010	1.00	0.00
ATOM 15	OG	SER A	2	7.785	31.464	2.025	1.00	0.00
ATOM 16	H	SER A	2	4.803	28.988	0.064	1.00	0.00
ATOM 17	HA	SER A	2	5.756	30.118	2.534	1.00	0.00
ATOM 18	1HB	SER A	2	7.736	29.852	0.776	1.00	0.00
ATOM 19	2HB	SER A	2	7.038	31.338	0.131	1.00	0.00
ATOM 20	HG	SER A	2	7.497	32.378	1.986	1.00	0.00
ATOM 21	N	SER A	3	4.363	31.422	-0.155	1.00	0.00
ATOM 22	CA	SER A	3	3.384	32.399	-0.616	1.00	0.00
ATOM 23	C	SER A	3	2.847	32.019	-1.991	1.00	0.00
ATOM 24	O	SER A	3	1.639	32.033	-2.222	1.00	0.00
ATOM 25	CB	SER A	3	4.009	33.795	-0.667	1.00	0.00
ATOM 26	OG	SER A	3	3.148	34.717	-1.311	1.00	0.00
ATOM 27	H	SER A	3	4.772	30.813	-0.805	1.00	0.00

ATOM 28	HA	SER A	3	2.566	32.406	0.088	1.00	0.00
ATOM 29	1HB	SER A	3	4.197	34.140	0.339	1.00	0.00
ATOM 30	2HB	SER A	3	4.941	33.750	-1.212	1.00	0.00
ATOM 31	HG	SER A	3	2.316	34.765	-0.834	1.00	0.00
ATOM 32	N	GLY A	4	3.755	31.678	-2.900	1.00	0.00
ATOM 33	CA	GLY A	4	3.354	31.296	-4.240	1.00	0.00
ATOM 34	C	GLY A	4	2.556	30.008	-4.261	1.00	0.00
ATOM 35	O	GLY A	4	1.393	29.985	-3.859	1.00	0.00
ATOM 36	H	GLY A	4	4.705	31.685	-2.658	1.00	0.00
ATOM 37	1HA	GLY A	4	2.750	32.087	-4.663	1.00	0.00
ATOM 38	2HA	GLY A	4	4.239	31.170	-4.847	1.00	0.00
ATOM 39	N	SER A	5	3.183	28.933	-4.727	1.00	0.00
ATOM 40	CA	SER A	5	2.522	27.634	-4.796	1.00	0.00
ATOM 41	C	SER A	5	2.595	26.917	-3.452	1.00	0.00
ATOM 42	O	SER A	5	3.335	25.946	-3.292	1.00	0.00
ATOM 43	CB	SER A	5	3.160	26.770	-5.886	1.00	0.00
ATOM 44	OG	SER A	5	2.482	26.924	-7.121	1.00	0.00
ATOM 45	H	SER A	5	4.111	29.015	-5.031	1.00	0.00
ATOM 46	HA	SER A	5	1.485	27.804	-5.044	1.00	0.00
ATOM 47	1HB	SER A	5	4.191	27.063	-6.018	1.00	0.00
ATOM 48	2HB	SER A	5	3.115	25.733	-5.591	1.00	0.00
ATOM 49	HG	SER A	5	1.560	26.680	-7.013	1.00	0.00
ATOM 50	N	SER A	6	1.821	27.401	-2.486	1.00	0.00
ATOM 51	CA	SER A	6	1.797	26.806	-1.154	1.00	0.00
ATOM 52	C	SER A	6	0.712	25.738	-1.057	1.00	0.00
ATOM 53	O	SER A	6	0.981	24.598	-0.678	1.00	0.00
ATOM 54	CB	SER A	6	1.564	27.885	-0.095	1.00	0.00

ATOM 55	OG	SER A	6	1.279	27.307	1.168	1.00	0.00
ATOM 56	H	SER A	6	1.253	28.177	-2.673	1.00	0.00
ATOM 57	HA	SER A	6	2.757	26.344	-0.979	1.00	0.00
ATOM 58	1HB	SER A	6	2.450	28.495	-0.004	1.00	0.00
ATOM 59	2HB	SER A	6	0.730	28.504	-0.391	1.00	0.00
ATOM 60	HG	SER A	6	1.159	28.002	1.819	1.00	0.00
ATOM 61	N	GLY A	7	-0.515	26.115	-1.404	1.00	0.00
ATOM 62	CA	GLY A	7	-1.622	25.179	-1.351	1.00	0.00
ATOM 63	C	GLY A	7	-2.174	24.858	-2.725	1.00	0.00
ATOM 64	O	GLY A	7	-1.421	24.535	-3.644	1.00	0.00
ATOM 65	H	GLY A	7	-0.668	27.037	-1.698	1.00	0.00
ATOM 66	1HA	GLY A	7	-1.284	24.264	-0.887	1.00	0.00
ATOM 67	2HA	GLY A	7	-2.411	25.604	-0.749	1.00	0.00
ATOM 68	N	SER A	8	-3.493	24.948	-2.868	1.00	0.00
ATOM 69	CA	SER A	8	-4.144	24.665	-4.142	1.00	0.00
ATOM 70	C	SER A	8	-3.868	23.234	-4.590	1.00	0.00
ATOM 71	O	SER A	8	-3.795	22.950	-5.786	1.00	0.00
ATOM 72	CB	SER A	8	-3.666	25.649	-5.212	1.00	0.00
ATOM 73	OG	SER A	8	-4.487	26.803	-5.248	1.00	0.00
ATOM 74	H	SER A	8	-4.040	25.212	-2.099	1.00	0.00
ATOM 75	HA	SER A	8	-5.208	24.787	-4.003	1.00	0.00
ATOM 76	1HB	SER A	8	-2.653	25.950	-4.994	1.00	0.00
ATOM 77	2HB	SER A	8	-3.699	25.169	-6.179	1.00	0.00
ATOM 78	HG	SER A	8	-5.375	26.557	-5.517	1.00	0.00
ATOM 79	N	SER A	9	-3.715	22.336	-3.622	1.00	0.00
ATOM 80	CA	SER A	9	-3.448	20.932	-3.917	1.00	0.00
ATOM 81	C	SER A	9	-2.152	20.778	-4.707	1.00	0.00

ATOM 82	O	SER A	9	-2.171	20.473	-5.900	1.00	0.00
ATOM 83	CB	SER A	9	-4.613	20.323	-4.699	1.00	0.00
ATOM 84	OG	SER A	9	-4.291	19.024	-5.164	1.00	0.00
ATOM 85	H	SER A	9	-3.785	22.623	-2.688	1.00	0.00
ATOM 86	HA	SER A	9	-3.346	20.411	-2.977	1.00	0.00
ATOM 87	1HB	SER A	9	-5.479	20.258	-4.058	1.00	0.00
ATOM 88	2HB	SER A	9	-4.840	20.951	-5.548	1.00	0.00
ATOM 89	HG	SER A	9	-4.432	18.387	-4.460	1.00	0.00
ATOM 90	N	SER A	10	-1.025	20.989	-4.033	1.00	0.00
ATOM 91	CA	SER A	10	0.281	20.873	-4.672	1.00	0.00
ATOM 92	C	SER A	10	0.921	19.525	-4.356	1.00	0.00
ATOM 93	O	SER A	10	2.145	19.413	-4.271	1.00	0.00
ATOM 94	CB	SER A	10	1.199	22.007	-4.214	1.00	0.00
ATOM 95	OG	SER A	10	2.511	21.839	-4.722	1.00	0.00
ATOM 96	H	SER A	10	-1.074	21.228	-3.084	1.00	0.00
ATOM 97	HA	SER A	10	0.135	20.947	-5.739	1.00	0.00
ATOM 98	1HB	SER A	10	0.808	22.949	-4.569	1.00	0.00
ATOM 99	2HB	SER A	10	1.242	22.019	-3.135	1.00	0.00
ATOM 100	HG	SER A	10	2.706	22.544	-5.344	1.00	0.00
ATOM 101	N	SER A	11	0.087	18.505	-4.182	1.00	0.00
ATOM 102	CA	SER A	11	0.572	17.165	-3.875	1.00	0.00
ATOM 103	C	SER A	11	0.461	16.254	-5.093	1.00	0.00
ATOM 104	O	SER A	11	-0.505	16.329	-5.852	1.00	0.00
ATOM 105	CB	SER A	11	-0.216	16.569	-2.707	1.00	0.00
ATOM 106	OG	SER A	11	-0.777	17.589	-1.898	1.00	0.00
ATOM 107	H	SER A	11	-0.878	18.657	-4.263	1.00	0.00
ATOM 108	HA	SER A	11	1.611	17.244	-3.593	1.00	0.00

ATOM 109	1HB	SER A	11	-1.014	15.952	-3.090	1.00	0.00
ATOM 110	2HB	SER A	11	0.445	15.967	-2.099	1.00	0.00
ATOM 111	N	GLN A	12	1.458	15.393	-5.274	1.00	0.00
ATOM 112	CA	GLN A	12	1.472	14.468	-6.401	1.00	0.00
ATOM 113	C	GLN A	12	0.764	13.164	-6.046	1.00	0.00
ATOM 114	O	GLN A	12	0.663	12.799	-4.874	1.00	0.00
ATOM 115	CB	GLN A	12	2.911	14.180	-6.837	1.00	0.00
ATOM 116	CG	GLN A	12	3.734	13.454	-5.786	1.00	0.00
ATOM 117	CD	GLN A	12	5.225	13.653	-5.976	1.00	0.00
ATOM 118	OE1	GLN A	12	5.871	12.919	-6.724	1.00	0.00
ATOM 119	NE2	GLN A	12	5.781	14.650	-5.297	1.00	0.00
ATOM 120	H	GLN A	12	2.201	15.380	-4.636	1.00	0.00
ATOM 121	HA	GLN A	12	0.945	14.936	-7.220	1.00	0.00
ATOM 122	1HB	GLN A	12	2.890	13.573	-7.729	1.00	0.00
ATOM 123	2HB	GLN A	12	3.399	15.118	-7.062	1.00	0.00
ATOM 124	1HG	GLN A	12	3.459	13.826	-4.811	1.00	0.00
ATOM 125	2HG	GLN A	12	3.516	12.398	-5.843	1.00	0.00
ATOM 126	1HE2	GLN A	12	5.206	15.195	-4.720	1.00	0.00
ATOM 127	2HE2	GLN A	12	6.743	14.802	-5.402	1.00	0.00
ATOM 128	N	HIS A	13	0.272	12.468	-7.066	1.00	0.00
ATOM 129	CA	HIS A	13	-0.430	11.205	-6.865	1.00	0.00
ATOM 130	C	HIS A	13	0.214	10.088	-7.682	1.00	0.00
ATOM 131	O	HIS A	13	0.736	10.324	-8.772	1.00	0.00
ATOM 132	CB	HIS A	13	-1.902	11.351	-7.253	1.00	0.00
ATOM 133	CG	HIS A	13	-2.670	12.273	-6.356	1.00	0.00
ATOM 134	ND1	HIS A	13	-3.879	12.834	-6.712	1.00	0.00
ATOM 135	CD2	HIS A	13	-2.395	12.733	-5.112	1.00	0.00

ATOM 136	CE1	HIS	A	13	-4.314	13.598	-5.726	1.00	0.00
ATOM 137	NE2	HIS	A	13	-3.433	13.554	-4.744	1.00	0.00
ATOM 138	H	HIS	A	13	0.384	12.812	-7.978	1.00	0.00
ATOM 139	HA	HIS	A	13	-0.364	10.952	-5.818	1.00	0.00
ATOM 140	1HB	HIS	A	13	-1.965	11.739	-8.259	1.00	0.00
ATOM 141	2HB	HIS	A	13	-2.374	10.380	-7.216	1.00	0.00
ATOM 142	HD1	HIS	A	13	-4.348	12.694	-7.560	1.00	0.00
ATOM 143	HD2	HIS	A	13	-1.523	12.496	-4.519	1.00	0.00
ATOM 144	HE1	HIS	A	13	-5.235	14.163	-5.724	1.00	0.00
ATOM 145	HE2	HIS	A	13	-3.463	14.103	-3.933	1.00	0.00
ATOM 146	N	PHE	A	14	0.171	8.871	-7.149	1.00	0.00
ATOM 147	CA	PHE	A	14	0.748	7.716	-7.831	1.00	0.00
ATOM 148	C	PHE	A	14	-0.172	6.505	-7.722	1.00	0.00
ATOM 149	O	PHE	A	14	-0.582	6.120	-6.627	1.00	0.00
ATOM 150	CB	PHE	A	14	2.122	7.387	-7.245	1.00	0.00
ATOM 151	CG	PHE	A	14	3.211	8.298	-7.734	1.00	0.00
ATOM 152	CD1	PHE	A	14	3.584	8.299	-9.068	1.00	0.00
ATOM 153	CD2	PHE	A	14	3.860	9.156	-6.860	1.00	0.00
ATOM 154	CE1	PHE	A	14	4.584	9.137	-9.523	1.00	0.00
ATOM 155	CE2	PHE	A	14	4.861	9.997	-7.309	1.00	0.00
ATOM 156	CZ	PHE	A	14	5.223	9.987	-8.642	1.00	0.00
ATOM 157	H	PHE	A	14	-0.261	8.745	-6.278	1.00	0.00
ATOM 158	HA	PHE	A	14	0.863	7.972	-8.873	1.00	0.00
ATOM 159	1HB	PHE	A	14	2.076	7.471	-6.169	1.00	0.00
ATOM 160	2HB	PHE	A	14	2.388	6.375	-7.513	1.00	0.00
ATOM 161	HD1	PHE	A	14	3.084	7.634	-9.758	1.00	0.00
ATOM 162	HD2	PHE	A	14	3.578	9.165	-5.817	1.00	0.00

ATOM 163	HE1	PHE	A	14	4.865	9.127	-10.566	1.00	0.00
ATOM 164	HE2	PHE	A	14	5.360	10.660	-6.618	1.00	0.00
ATOM 165	HZ	PHE	A	14	6.005	10.643	-8.996	1.00	0.00
ATOM 166	N	ASN	A	15	-0.498	5.910	-8.864	1.00	0.00
ATOM 167	CA	ASN	A	15	-1.376	4.745	-8.899	1.00	0.00
ATOM 168	C	ASN	A	15	-0.722	3.537	-8.236	1.00	0.00
ATOM 169	O	ASN	A	15	0.276	3.011	-8.727	1.00	0.00
ATOM 170	CB	ASN	A	15	-1.750	4.407	-10.344	1.00	0.00
ATOM 171	CG	ASN	A	15	-3.240	4.191	-10.520	1.00	0.00
ATOM 172	OD1	ASN	A	15	-3.901	3.614	-9.657	1.00	0.00
ATOM 173	ND2	ASN	A	15	-3.777	4.655	-11.643	1.00	0.00
ATOM 174	H	ASN	A	15	-0.143	6.266	-9.706	1.00	0.00
ATOM 175	HA	ASN	A	15	-2.275	4.994	-8.357	1.00	0.00
ATOM 176	1HB	ASN	A	15	-1.445	5.219	-10.988	1.00	0.00
ATOM 177	2HB	ASN	A	15	-1.236	3.505	-10.643	1.00	0.00
ATOM 178	1HD2	ASN	A	15	-3.190	5.104	-12.287	1.00	0.00
ATOM 179	2HD2	ASN	A	15	-4.740	4.529	-11.782	1.00	0.00
ATOM 180	N	LEU	A	16	-1.297	3.098	-7.120	1.00	0.00
ATOM 181	CA	LEU	A	16	-0.778	1.946	-6.392	1.00	0.00
ATOM 182	C	LEU	A	16	-1.532	0.680	-6.785	1.00	0.00
ATOM 183	O	LEU	A	16	-2.762	0.651	-6.773	1.00	0.00
ATOM 184	CB	LEU	A	16	-0.896	2.175	-4.884	1.00	0.00
ATOM 185	CG	LEU	A	16	-0.165	1.152	-4.014	1.00	0.00
ATOM 186	CD1	LEU	A	16	1.340	1.254	-4.218	1.00	0.00
ATOM 187	CD2	LEU	A	16	-0.524	1.349	-2.549	1.00	0.00
ATOM 188	H	LEU	A	16	-2.095	3.557	-6.781	1.00	0.00
ATOM 189	HA	LEU	A	16	0.263	1.830	-6.651	1.00	0.00

ATOM 190	1HB	LEU	A	16	-0.503	3.156	-4.659	1.00	0.00
ATOM 191	2HB	LEU	A	16	-1.943	2.156	-4.620	1.00	0.00
ATOM 192	HG	LEU	A	16	-0.474	0.158	-4.305	1.00	0.00
ATOM 193	1HD1	LEU	A	16	1.547	1.897	-5.061	1.00	0.00
ATOM 194	2HD1	LEU	A	16	1.745	0.270	-4.407	1.00	0.00
ATOM 195	3HD1	LEU	A	16	1.796	1.667	-3.330	1.00	0.00
ATOM 196	1HD2	LEU	A	16	-1.511	1.782	-2.474	1.00	0.00
ATOM 197	2HD2	LEU	A	16	0.195	2.010	-2.087	1.00	0.00
ATOM 198	3HD2	LEU	A	16	-0.511	0.395	-2.044	1.00	0.00
ATOM 199	N	ASN	A	17	-0.790	-0.366	-7.138	1.00	0.00
ATOM 200	CA	ASN	A	17	-1.403	-1.627	-7.538	1.00	0.00
ATOM 201	C	ASN	A	17	-0.529	-2.817	-7.152	1.00	0.00
ATOM 202	O	ASN	A	17	0.699	-2.746	-7.204	1.00	0.00
ATOM 203	CB	ASN	A	17	-1.656	-1.638	-9.046	1.00	0.00
ATOM 204	CG	ASN	A	17	-2.866	-0.810	-9.435	1.00	0.00
ATOM 205	OD1	ASN	A	17	-3.966	-1.336	-9.602	1.00	0.00
ATOM 206	ND2	ASN	A	17	-2.665	0.495	-9.583	1.00	0.00
ATOM 207	H	ASN	A	17	0.186	-0.286	-7.133	1.00	0.00
ATOM 208	HA	ASN	A	17	-2.348	-1.712	-7.025	1.00	0.00
ATOM 209	1HB	ASN	A	17	-0.791	-1.239	-9.554	1.00	0.00
ATOM 210	2HB	ASN	A	17	-1.821	-2.656	-9.371	1.00	0.00
ATOM 211	1HD2	ASN	A	17	-1.762	0.844	-9.434	1.00	0.00
ATOM 212	2HD2	ASN	A	17	-3.430	1.055	-9.834	1.00	0.00
ATOM 213	N	PHE	A	18	-1.178	-3.913	-6.770	1.00	0.00
ATOM 214	CA	PHE	A	18	-0.477	-5.130	-6.379	1.00	0.00
ATOM 215	C	PHE	A	18	-1.473	-6.244	-6.072	1.00	0.00
ATOM 216	O	PHE	A	18	-2.233	-6.163	-5.108	1.00	0.00



ATOM 217	CB	PHE A	18	0.418	-4.870	-5.165	1.00	0.00
ATOM 218	CG	PHE A	18	-0.329	-4.403	-3.948	1.00	0.00
ATOM 219	CD1	PHE A	18	-0.816	-3.107	-3.872	1.00	0.00
ATOM 220	CD2	PHE A	18	-0.538	-5.257	-2.879	1.00	0.00
ATOM 221	CE1	PHE A	18	-1.499	-2.674	-2.752	1.00	0.00
ATOM 222	CE2	PHE A	18	-1.221	-4.831	-1.756	1.00	0.00
ATOM 223	CZ	PHE A	18	-1.701	-3.537	-1.692	1.00	0.00
ATOM 224	H	PHE A	18	-2.158	-3.904	-6.756	1.00	0.00
ATOM 225	HA	PHE A	18	0.140	-5.436	-7.211	1.00	0.00
ATOM 226	1HB	PHE A	18	0.931	-5.784	-4.905	1.00	0.00
ATOM 227	2HB	PHE A	18	1.146	-4.115	-5.419	1.00	0.00
ATOM 228	HD1	PHE A	18	-0.658	-2.433	-4.701	1.00	0.00
ATOM 229	HD2	PHE A	18	-0.163	-6.269	-2.926	1.00	0.00
ATOM 230	HE1	PHE A	18	-1.873	-1.662	-2.704	1.00	0.00
ATOM 231	HE2	PHE A	18	-1.377	-5.507	-0.929	1.00	0.00
ATOM 232	HZ	PHE A	18	-2.235	-3.201	-0.815	1.00	0.00
ATOM 233	N	THR A	19	-1.468	-7.280	-6.906	1.00	0.00
ATOM 234	CA	THR A	19	-2.377	-8.407	-6.735	1.00	0.00
ATOM 235	C	THR A	19	-2.040	-9.206	-5.481	1.00	0.00
ATOM 236	O	THR A	19	-0.886	-9.568	-5.252	1.00	0.00
ATOM 237	CB	THR A	19	-2.327	-9.318	-7.961	1.00	0.00
ATOM 238	OG1	THR A	19	-2.537	-8.575	-9.148	1.00	0.00
ATOM 239	CG2	THR A	19	-3.357	-10.427	-7.925	1.00	0.00
ATOM 240	H	THR A	19	-0.842	-7.282	-7.660	1.00	0.00
ATOM 241	HA	THR A	19	-3.376	-8.011	-6.635	1.00	0.00
ATOM 242	HB	THR A	19	-1.349	-9.777	-8.017	1.00	0.00
ATOM 243	HG1	THR A	19	-3.444	-8.261	-9.173	1.00	0.00

ATOM 244	1HG2	THR	A	19	-3.184	-11.106	-8.748	1.00	0.00
ATOM 245	2HG2	THR	A	19	-4.346	-10.002	-8.012	1.00	0.00
ATOM 246	3HG2	THR	A	19	-3.275	-10.964	-6.992	1.00	0.00
ATOM 247	N	ILE	A	20	-3.060	-9.483	-4.675	1.00	0.00
ATOM 248	CA	ILE	A	20	-2.882	-10.244	-3.445	1.00	0.00
ATOM 249	C	ILE	A	20	-3.406	-11.668	-3.607	1.00	0.00
ATOM 250	O	ILE	A	20	-4.506	-11.881	-4.115	1.00	0.00
ATOM 251	CB	ILE	A	20	-3.605	-9.575	-2.261	1.00	0.00
ATOM 252	CG1	ILE	A	20	-3.235	-8.093	-2.179	1.00	0.00
ATOM 253	CG2	ILE	A	20	-3.261	-10.285	-0.960	1.00	0.00
ATOM 254	CD1	ILE	A	20	-4.212	-7.270	-1.369	1.00	0.00
ATOM 255	H	ILE	A	20	-3.957	-9.168	-4.916	1.00	0.00
ATOM 256	HA	ILE	A	20	-1.827	-10.280	-3.224	1.00	0.00
ATOM 257	HB	ILE	A	20	-4.669	-9.665	-2.420	1.00	0.00
ATOM 258	1HG1	ILE	A	20	-2.261	-7.996	-1.722	1.00	0.00
ATOM 259	2HG1	ILE	A	20	-3.201	-7.682	-3.178	1.00	0.00
ATOM 260	1HG2	ILE	A	20	-4.138	-10.328	-0.330	1.00	0.00
ATOM 261	2HG2	ILE	A	20	-2.478	-9.743	-0.450	1.00	0.00
ATOM 262	3HG2	ILE	A	20	-2.924	-11.288	-1.176	1.00	0.00
ATOM 263	1HD1	ILE	A	20	-4.513	-7.826	-0.494	1.00	0.00
ATOM 264	2HD1	ILE	A	20	-5.081	-7.048	-1.971	1.00	0.00
ATOM 265	3HD1	ILE	A	20	-3.740	-6.348	-1.064	1.00	0.00
ATOM 266	N	THR	A	21	-2.610	-12.640	-3.172	1.00	0.00
ATOM 267	CA	THR	A	21	-2.994	-14.044	-3.270	1.00	0.00
ATOM 268	C	THR	A	21	-3.575	-14.545	-1.952	1.00	0.00
ATOM 269	O	THR	A	21	-3.456	-15.724	-1.619	1.00	0.00
ATOM 270	CB	THR	A	21	-1.786	-14.896	-3.664	1.00	0.00

ATOM 271	OG1	THR	A	21	-0.808	-14.886	-2.639	1.00	0.00
ATOM 272	CG2	THR	A	21	-1.117	-14.434	-4.940	1.00	0.00
ATOM 273	H	THR	A	21	-1.744	-12.408	-2.776	1.00	0.00
ATOM 274	HA	THR	A	21	-3.748	-14.128	-4.038	1.00	0.00
ATOM 275	HB	THR	A	21	-2.112	-15.916	-3.812	1.00	0.00
ATOM 276	HG1	THR	A	21	-0.264	-15.673	-2.707	1.00	0.00
ATOM 277	1HG2	THR	A	21	-1.412	-15.078	-5.756	1.00	0.00
ATOM 278	2HG2	THR	A	21	-0.044	-14.474	-4.820	1.00	0.00
ATOM 279	3HG2	THR	A	21	-1.417	-13.420	-5.157	1.00	0.00
ATOM 280	N	ASN	A	22	-4.205	-13.643	-1.206	1.00	0.00
ATOM 281	CA	ASN	A	22	-4.807	-13.995	0.075	1.00	0.00
ATOM 282	C	ASN	A	22	-6.291	-13.645	0.092	1.00	0.00
ATOM 283	O	ASN	A	22	-7.117	-14.423	0.567	1.00	0.00
ATOM 284	CB	ASN	A	22	-4.087	-13.274	1.215	1.00	0.00
ATOM 285	CG	ASN	A	22	-4.202	-14.016	2.532	1.00	0.00
ATOM 286	OD1	ASN	A	22	-4.247	-15.246	2.563	1.00	0.00
ATOM 287	ND2	ASN	A	22	-4.247	-13.270	3.630	1.00	0.00
ATOM 288	H	ASN	A	22	-4.268	-12.719	-1.526	1.00	0.00
ATOM 289	HA	ASN	A	22	-4.699	-15.061	0.210	1.00	0.00
ATOM 290	1HB	ASN	A	22	-3.040	-13.177	0.969	1.00	0.00
ATOM 291	2HB	ASN	A	22	-4.516	-12.289	1.338	1.00	0.00
ATOM 292	1HD2	ASN	A	22	-4.206	-12.296	3.530	1.00	0.00
ATOM 293	2HD2	ASN	A	22	-4.321	-13.724	4.496	1.00	0.00
ATOM 294	N	LEU	A	23	-6.621	-12.469	-0.431	1.00	0.00
ATOM 295	CA	LEU	A	23	-8.006	-12.015	-0.478	1.00	0.00
ATOM 296	C	LEU	A	23	-8.761	-12.692	-1.621	1.00	0.00
ATOM 297	O	LEU	A	23	-8.476	-12.443	-2.792	1.00	0.00

ATOM 298	CB	LEU A	23	-8.056	-10.495	-0.649	1.00	0.00
ATOM 299	CG	LEU A	23	-9.329	-9.824	-0.129	1.00	0.00
ATOM 300	CD1	LEU A	23	-10.521	-10.195	-0.997	1.00	0.00
ATOM 301	CD2	LEU A	23	-9.581	-10.212	1.320	1.00	0.00
ATOM 302	H	LEU A	23	-5.917	-11.893	-0.794	1.00	0.00
ATOM 303	HA	LEU A	23	-8.472	-12.277	0.458	1.00	0.00
ATOM 304	1HB	LEU A	23	-7.211	-10.067	-0.131	1.00	0.00
ATOM 305	2HB	LEU A	23	-7.963	-10.269	-1.701	1.00	0.00
ATOM 306	HG	LEU A	23	-9.206	-8.752	-0.173	1.00	0.00
ATOM 307	1HD1	LEU A	23	-11.191	-9.351	-1.068	1.00	0.00
ATOM 308	2HD1	LEU A	23	-11.041	-11.033	-0.556	1.00	0.00
ATOM 309	3HD1	LEU A	23	-10.176	-10.465	-1.985	1.00	0.00
ATOM 310	1HD2	LEU A	23	-9.942	-11.229	1.362	1.00	0.00
ATOM 311	2HD2	LEU A	23	-10.319	-9.549	1.747	1.00	0.00
ATOM 312	3HD2	LEU A	23	-8.660	-10.134	1.879	1.00	0.00
ATOM 313	N	PRO A	24	-9.738	-13.561	-1.301	1.00	0.00
ATOM 314	CA	PRO A	24	-10.524	-14.268	-2.315	1.00	0.00
ATOM 315	C	PRO A	24	-11.543	-13.360	-2.995	1.00	0.00
ATOM 316	O	PRO A	24	-12.499	-12.903	-2.367	1.00	0.00
ATOM 317	CB	PRO A	24	-11.231	-15.358	-1.512	1.00	0.00
ATOM 318	CG	PRO A	24	-11.368	-14.785	-0.145	1.00	0.00
ATOM 319	CD	PRO A	24	-10.151	-13.925	0.070	1.00	0.00
ATOM 320	HA	PRO A	24	-9.891	-14.720	-3.063	1.00	0.00
ATOM 321	1HB	PRO A	24	-12.194	-15.569	-1.954	1.00	0.00
ATOM 322	2HB	PRO A	24	-10.627	-16.254	-1.505	1.00	0.00
ATOM 323	1HG	PRO A	24	-12.265	-14.186	-0.087	1.00	0.00
ATOM 324	2HG	PRO A	24	-11.398	-15.580	0.586	1.00	0.00

ATOM 325	1HD	PRO A	24	-10.407	-13.045	0.641	1.00	0.00
ATOM 326	2HD	PRO A	24	-9.375	-14.487	0.569	1.00	0.00
ATOM 327	N	TYR A	25	-11.332	-13.101	-4.282	1.00	0.00
ATOM 328	CA	TYR A	25	-12.232	-12.247	-5.047	1.00	0.00
ATOM 329	C	TYR A	25	-13.582	-12.926	-5.255	1.00	0.00
ATOM 330	O	TYR A	25	-13.648	-14.081	-5.680	1.00	0.00
ATOM 331	CB	TYR A	25	-11.610	-11.899	-6.401	1.00	0.00
ATOM 332	CG	TYR A	25	-12.137	-10.614	-6.998	1.00	0.00
ATOM 333	CD1	TYR A	25	-12.832	-10.618	-8.202	1.00	0.00
ATOM 334	CD2	TYR A	25	-11.942	-9.396	-6.359	1.00	0.00
ATOM 335	CE1	TYR A	25	-13.314	-9.447	-8.752	1.00	0.00
ATOM 336	CE2	TYR A	25	-12.422	-8.220	-6.902	1.00	0.00
ATOM 337	CZ	TYR A	25	-13.107	-8.251	-8.098	1.00	0.00
ATOM 338	OH	TYR A	25	-13.587	-7.081	-8.642	1.00	0.00
ATOM 339	H	TYR A	25	-10.552	-13.494	-4.726	1.00	0.00
ATOM 340	HA	TYR A	25	-12.383	-11.337	-4.485	1.00	0.00
ATOM 341	1HB	TYR A	25	-10.541	-11.794	-6.281	1.00	0.00
ATOM 342	2HB	TYR A	25	-11.812	-12.698	-7.098	1.00	0.00
ATOM 343	HD1	TYR A	25	-12.992	-11.557	-8.711	1.00	0.00
ATOM 344	HD2	TYR A	25	-11.403	-9.376	-5.422	1.00	0.00
ATOM 345	HE1	TYR A	25	-13.852	-9.471	-9.688	1.00	0.00
ATOM 346	HE2	TYR A	25	-12.259	-7.283	-6.389	1.00	0.00
ATOM 347	HH	TYR A	25	-13.916	-6.513	-7.942	1.00	0.00
ATOM 348	N	SER A	26	-14.656	-12.204	-4.955	1.00	0.00
ATOM 349	CA	SER A	26	-16.004	-12.736	-5.110	1.00	0.00
ATOM 350	C	SER A	26	-16.966	-11.653	-5.586	1.00	0.00
ATOM 351	O	SER A	26	-16.554	-10.535	-5.896	1.00	0.00

ATOM 352	CB	SER A	26	-16.496	-13.327	-3.789	1.00	0.00
ATOM 353	OG	SER A	26	-15.594	-14.303	-3.297	1.00	0.00
ATOM 354	H	SER A	26	-14.538	-11.289	-4.622	1.00	0.00
ATOM 355	HA	SER A	26	-15.967	-13.520	-5.853	1.00	0.00
ATOM 356	1HB	SER A	26	-16.587	-12.539	-3.056	1.00	0.00
ATOM 357	2HB	SER A	26	-17.460	-13.790	-3.940	1.00	0.00
ATOM 358	HG	SER A	26	-14.977	-13.891	-2.688	1.00	0.00
ATOM 359	N	GLN A	27	-18.250	-11.992	-5.644	1.00	0.00
ATOM 360	CA	GLN A	27	-19.272	-11.049	-6.082	1.00	0.00
ATOM 361	C	GLN A	27	-19.377	-9.872	-5.118	1.00	0.00
ATOM 362	O	GLN A	27	-19.653	-8.745	-5.527	1.00	0.00
ATOM 363	CB	GLN A	27	-20.627	-11.750	-6.198	1.00	0.00
ATOM 364	CG	GLN A	27	-20.732	-12.674	-7.403	1.00	0.00
ATOM 365	CD	GLN A	27	-21.056	-14.104	-7.017	1.00	0.00
ATOM 366	OE1	GLN A	27	-20.591	-14.603	-5.993	1.00	0.00
ATOM 367	NE2	GLN A	27	-21.860	-14.770	-7.837	1.00	0.00
ATOM 368	H	GLN A	27	-18.517	-12.899	-5.384	1.00	0.00
ATOM 369	HA	GLN A	27	-18.984	-10.678	-7.054	1.00	0.00
ATOM 370	1HB	GLN A	27	-20.793	-12.336	-5.306	1.00	0.00
ATOM 371	2HB	GLN A	27	-21.401	-11.002	-6.277	1.00	0.00
ATOM 372	1HG	GLN A	27	-21.512	-12.307	-8.053	1.00	0.00
ATOM 373	2HG	GLN A	27	-19.789	-12.663	-7.930	1.00	0.00
ATOM 374	1HE2	GLN A	27	-22.193	-14.308	-8.635	1.00	0.00
ATOM 375	2HE2	GLN A	27	-22.086	-15.697	-7.613	1.00	0.00
ATOM 376	N	ASP A	28	-19.156	-10.142	-3.835	1.00	0.00
ATOM 377	CA	ASP A	28	-19.226	-9.104	-2.814	1.00	0.00
ATOM 378	C	ASP A	28	-18.139	-8.056	-3.027	1.00	0.00

ATOM 379	O	ASP	A	28	-18.412	-6.856	-3.039	1.00	0.00
ATOM 380	CB	ASP	A	28	-19.092	-9.720	-1.421	1.00	0.00
ATOM 381	CG	ASP	A	28	-19.999	-10.920	-1.228	1.00	0.00
ATOM 382	OD1	ASP	A	28	-19.478	-12.054	-1.164	1.00	0.00
ATOM 383	OD2	ASP	A	28	-21.229	-10.726	-1.142	1.00	0.00
ATOM 384	H	ASP	A	28	-18.941	-11.060	-3.570	1.00	0.00
ATOM 385	HA	ASP	A	28	-20.191	-8.624	-2.894	1.00	0.00
ATOM 386	1HB	ASP	A	28	-18.071	-10.038	-1.271	1.00	0.00
ATOM 387	2HB	ASP	A	28	-19.345	-8.978	-0.678	1.00	0.00
ATOM 388	N	ILE	A	29	-16.904	-8.518	-3.195	1.00	0.00
ATOM 389	CA	ILE	A	29	-15.775	-7.621	-3.408	1.00	0.00
ATOM 390	C	ILE	A	29	-15.811	-7.005	-4.805	1.00	0.00
ATOM 391	O	ILE	A	29	-15.173	-5.984	-5.060	1.00	0.00
ATOM 392	CB	ILE	A	29	-14.432	-8.351	-3.212	1.00	0.00
ATOM 393	CG1	ILE	A	29	-14.416	-9.077	-1.867	1.00	0.00
ATOM 394	CG2	ILE	A	29	-13.273	-7.368	-3.302	1.00	0.00
ATOM 395	CD1	ILE	A	29	-14.608	-8.156	-0.680	1.00	0.00
ATOM 396	H	ILE	A	29	-16.749	-9.486	-3.175	1.00	0.00
ATOM 397	HA	ILE	A	29	-15.838	-6.828	-2.677	1.00	0.00
ATOM 398	HB	ILE	A	29	-14.321	-9.074	-4.005	1.00	0.00
ATOM 399	1HG1	ILE	A	29	-15.210	-9.808	-1.850	1.00	0.00
ATOM 400	2HG1	ILE	A	29	-13.467	-9.579	-1.747	1.00	0.00
ATOM 401	1HG2	ILE	A	29	-12.361	-7.858	-2.997	1.00	0.00
ATOM 402	2HG2	ILE	A	29	-13.464	-6.526	-2.654	1.00	0.00
ATOM 403	3HG2	ILE	A	29	-13.173	-7.022	-4.320	1.00	0.00
ATOM 404	1HD1	ILE	A	29	-14.626	-7.132	-1.021	1.00	0.00
ATOM 405	2HD1	ILE	A	29	-13.793	-8.290	0.015	1.00	0.00

ATOM 406	3HD1	ILE	A	29	-15.542	-8.389	-0.191	1.00	0.00
ATOM 407	N	ALA	A	30	-16.563	-7.630	-5.710	1.00	0.00
ATOM 408	CA	ALA	A	30	-16.680	-7.137	-7.077	1.00	0.00
ATOM 409	C	ALA	A	30	-17.924	-6.270	-7.245	1.00	0.00
ATOM 410	O	ALA	A	30	-18.511	-6.212	-8.325	1.00	0.00
ATOM 411	CB	ALA	A	30	-16.713	-8.303	-8.056	1.00	0.00
ATOM 412	H	ALA	A	30	-17.051	-8.439	-5.450	1.00	0.00
ATOM 413	HA	ALA	A	30	-15.805	-6.541	-7.292	1.00	0.00
ATOM 414	1HB	ALA	A	30	-15.985	-9.043	-7.758	1.00	0.00
ATOM 415	2HB	ALA	A	30	-16.477	-7.946	-9.048	1.00	0.00
ATOM 416	3HB	ALA	A	30	-17.697	-8.745	-8.056	1.00	0.00
ATOM 417	N	GLN	A	31	-18.320	-5.597	-6.169	1.00	0.00
ATOM 418	CA	GLN	A	31	-19.492	-4.732	-6.195	1.00	0.00
ATOM 419	C	GLN	A	31	-19.484	-3.778	-5.001	1.00	0.00
ATOM 420	O	GLN	A	31	-19.737	-4.191	-3.869	1.00	0.00
ATOM 421	CB	GLN	A	31	-20.772	-5.572	-6.182	1.00	0.00
ATOM 422	CG	GLN	A	31	-21.319	-5.866	-7.571	1.00	0.00
ATOM 423	CD	GLN	A	31	-22.683	-5.246	-7.805	1.00	0.00
ATOM 424	OE1	GLN	A	31	-23.479	-5.100	-6.877	1.00	0.00
ATOM 425	NE2	GLN	A	31	-22.960	-4.876	-9.050	1.00	0.00
ATOM 426	H	GLN	A	31	-17.810	-5.683	-5.337	1.00	0.00
ATOM 427	HA	GLN	A	31	-19.459	-4.157	-7.106	1.00	0.00
ATOM 428	1HB	GLN	A	31	-20.566	-6.512	-5.694	1.00	0.00
ATOM 429	2HB	GLN	A	31	-21.530	-5.044	-5.624	1.00	0.00
ATOM 430	1HG	GLN	A	31	-20.632	-5.474	-8.305	1.00	0.00
ATOM 431	2HG	GLN	A	31	-21.401	-6.937	-7.691	1.00	0.00
ATOM 432	1HE2	GLN	A	31	-22.277	-5.023	-9.738	1.00	0.00



ATOM 433	2HE2	GLN	A	31	-23.833	-4.471	-9.230	1.00	0.00
ATOM 434	N	PRO	A	32	-19.189	-2.485	-5.233	1.00	0.00
ATOM 435	CA	PRO	A	32	-19.148	-1.482	-4.163	1.00	0.00
ATOM 436	C	PRO	A	32	-20.529	-1.207	-3.574	1.00	0.00
ATOM 437	O	PRO	A	32	-21.052	-0.097	-3.681	1.00	0.00
ATOM 438	CB	PRO	A	32	-18.602	-0.234	-4.861	1.00	0.00
ATOM 439	CG	PRO	A	32	-18.939	-0.422	-6.298	1.00	0.00
ATOM 440	CD	PRO	A	32	-18.871	-1.901	-6.550	1.00	0.00
ATOM 441	HA	PRO	A	32	-18.476	-1.779	-3.371	1.00	0.00
ATOM 442	1HB	PRO	A	32	-19.078	0.647	-4.454	1.00	0.00
ATOM 443	2HB	PRO	A	32	-17.534	-0.173	-4.712	1.00	0.00
ATOM 444	1HG	PRO	A	32	-19.936	-0.053	-6.493	1.00	0.00
ATOM 445	2HG	PRO	A	32	-18.220	0.096	-6.916	1.00	0.00
ATOM 446	1HD	PRO	A	32	-19.603	-2.193	-7.288	1.00	0.00
ATOM 447	2HD	PRO	A	32	-17.878	-2.185	-6.868	1.00	0.00
ATOM 448	N	SER	A	33	-21.113	-2.225	-2.951	1.00	0.00
ATOM 449	CA	SER	A	33	-22.432	-2.096	-2.344	1.00	0.00
ATOM 450	C	SER	A	33	-22.714	-3.263	-1.402	1.00	0.00
ATOM 451	O	SER	A	33	-23.861	-3.680	-1.242	1.00	0.00
ATOM 452	CB	SER	A	33	-23.511	-2.024	-3.425	1.00	0.00
ATOM 453	OG	SER	A	33	-24.796	-1.857	-2.852	1.00	0.00
ATOM 454	H	SER	A	33	-20.645	-3.085	-2.900	1.00	0.00
ATOM 455	HA	SER	A	33	-22.445	-1.179	-1.773	1.00	0.00
ATOM 456	1HB	SER	A	33	-23.310	-1.187	-4.076	1.00	0.00
ATOM 457	2HB	SER	A	33	-23.502	-2.938	-4.000	1.00	0.00
ATOM 458	HG	SER	A	33	-24.764	-1.162	-2.190	1.00	0.00
ATOM 459	N	THR	A	34	-21.661	-3.787	-0.783	1.00	0.00

ATOM 460	CA	THR A	34	-21.795	-4.905	0.142	1.00	0.00
ATOM 461	C	THR A	34	-20.978	-4.662	1.407	1.00	0.00
ATOM 462	O	THR A	34	-20.269	-3.662	1.517	1.00	0.00
ATOM 463	CB	THR A	34	-21.349	-6.206	-0.527	1.00	0.00
ATOM 464	OG1	THR A	34	-19.935	-6.278	-0.589	1.00	0.00
ATOM 465	CG2	THR A	34	-21.879	-6.369	-1.935	1.00	0.00
ATOM 466	H	THR A	34	-20.772	-3.410	-0.952	1.00	0.00
ATOM 467	HA	THR A	34	-22.837	-4.988	0.411	1.00	0.00
ATOM 468	HB	THR A	34	-21.705	-7.041	0.060	1.00	0.00
ATOM 469	HG1	THR A	34	-19.608	-5.615	-1.201	1.00	0.00
ATOM 470	1HG2	THR A	34	-21.949	-7.420	-2.174	1.00	0.00
ATOM 471	2HG2	THR A	34	-21.208	-5.885	-2.630	1.00	0.00
ATOM 472	3HG2	THR A	34	-22.858	-5.918	-2.005	1.00	0.00
ATOM 473	N	THR A	35	-21.083	-5.583	2.361	1.00	0.00
ATOM 474	CA	THR A	35	-20.354	-5.466	3.618	1.00	0.00
ATOM 475	C	THR A	35	-18.925	-5.981	3.472	1.00	0.00
ATOM 476	O	THR A	35	-18.002	-5.462	4.100	1.00	0.00
ATOM 477	CB	THR A	35	-21.076	-6.237	4.724	1.00	0.00
ATOM 478	OG1	THR A	35	-22.476	-6.041	4.642	1.00	0.00
ATOM 479	CG2	THR A	35	-20.637	-5.837	6.116	1.00	0.00
ATOM 480	H	THR A	35	-21.664	-6.358	2.215	1.00	0.00
ATOM 481	HA	THR A	35	-20.320	-4.421	3.884	1.00	0.00
ATOM 482	HB	THR A	35	-20.873	-7.292	4.605	1.00	0.00
ATOM 483	HG1	THR A	35	-22.834	-6.584	3.936	1.00	0.00
ATOM 484	1HG2	THR A	35	-21.325	-5.105	6.513	1.00	0.00
ATOM 485	2HG2	THR A	35	-19.645	-5.412	6.073	1.00	0.00
ATOM 486	3HG2	THR A	35	-20.628	-6.707	6.755	1.00	0.00

ATOM 487	N	LYS A	36	-18.750	-7.003	2.641	1.00	0.00
ATOM 488	CA	LYS A	36	-17.436	-7.588	2.413	1.00	0.00
ATOM 489	C	LYS A	36	-16.552	-6.642	1.606	1.00	0.00
ATOM 490	O	LYS A	36	-15.335	-6.604	1.788	1.00	0.00
ATOM 491	CB	LYS A	36	-17.585	-8.925	1.687	1.00	0.00
ATOM 492	CG	LYS A	36	-16.752	-10.047	2.291	1.00	0.00
ATOM 493	CD	LYS A	36	-15.264	-9.822	2.076	1.00	0.00
ATOM 494	CE	LYS A	36	-14.714	-10.729	0.988	1.00	0.00
ATOM 495	NZ	LYS A	36	-13.239	-10.591	0.841	1.00	0.00
ATOM 496	H	LYS A	36	-19.521	-7.375	2.167	1.00	0.00
ATOM 497	HA	LYS A	36	-16.976	-7.759	3.375	1.00	0.00
ATOM 498	1HB	LYS A	36	-18.622	-9.223	1.718	1.00	0.00
ATOM 499	2HB	LYS A	36	-17.289	-8.798	0.659	1.00	0.00
ATOM 500	1HG	LYS A	36	-16.948	-10.094	3.352	1.00	0.00
ATOM 501	2HG	LYS A	36	-17.037	-10.981	1.829	1.00	0.00
ATOM 502	1HD	LYS A	36	-15.102	-8.795	1.790	1.00	0.00
ATOM 503	2HD	LYS A	36	-14.742	-10.027	3.000	1.00	0.00
ATOM 504	1HE	LYS A	36	-14.947	-11.754	1.239	1.00	0.00
ATOM 505	2HE	LYS A	36	-15.187	-10.474	0.051	1.00	0.00
ATOM 506	1HZ	LYS A	36	-12.969	-10.683	-0.160	1.00	0.00
ATOM 507	2HZ	LYS A	36	-12.754	-11.331	1.388	1.00	0.00
ATOM 508	3HZ	LYS A	36	-12.930	-9.661	1.189	1.00	0.00
ATOM 509	N	TYR A	37	-17.173	-5.877	0.715	1.00	0.00
ATOM 510	CA	TYR A	37	-16.444	-4.929	-0.120	1.00	0.00
ATOM 511	C	TYR A	37	-15.787	-3.844	0.731	1.00	0.00
ATOM 512	O	TYR A	37	-14.568	-3.679	0.709	1.00	0.00
ATOM 513	CB	TYR A	37	-17.385	-4.291	-1.145	1.00	0.00

ATOM 514	CG	TYR A	37	-16.716	-3.260	-2.027	1.00	0.00
ATOM 515	CD1	TYR A	37	-16.236	-3.601	-3.285	1.00	0.00
ATOM 516	CD2	TYR A	37	-16.565	-1.946	-1.600	1.00	0.00
ATOM 517	CE1	TYR A	37	-15.624	-2.662	-4.093	1.00	0.00
ATOM 518	CE2	TYR A	37	-15.955	-1.001	-2.404	1.00	0.00
ATOM 519	CZ	TYR A	37	-15.486	-1.364	-3.649	1.00	0.00
ATOM 520	OH	TYR A	37	-14.877	-0.427	-4.450	1.00	0.00
ATOM 521	H	TYR A	37	-18.145	-5.950	0.616	1.00	0.00
ATOM 522	HA	TYR A	37	-15.673	-5.474	-0.644	1.00	0.00
ATOM 523	1HB	TYR A	37	-17.785	-5.063	-1.784	1.00	0.00
ATOM 524	2HB	TYR A	37	-18.197	-3.806	-0.623	1.00	0.00
ATOM 525	HD1	TYR A	37	-16.345	-4.618	-3.631	1.00	0.00
ATOM 526	HD2	TYR A	37	-16.934	-1.665	-0.625	1.00	0.00
ATOM 527	HE1	TYR A	37	-15.257	-2.947	-5.069	1.00	0.00
ATOM 528	HE2	TYR A	37	-15.847	0.015	-2.055	1.00	0.00
ATOM 529	HH	TYR A	37	-14.178	0.011	-3.959	1.00	0.00
ATOM 530	N	GLN A	38	-16.605	-3.107	1.475	1.00	0.00
ATOM 531	CA	GLN A	38	-16.103	-2.035	2.329	1.00	0.00
ATOM 532	C	GLN A	38	-15.281	-2.593	3.487	1.00	0.00
ATOM 533	O	GLN A	38	-14.371	-1.934	3.986	1.00	0.00
ATOM 534	CB	GLN A	38	-17.266	-1.201	2.869	1.00	0.00
ATOM 535	CG	GLN A	38	-17.691	-0.076	1.940	1.00	0.00
ATOM 536	CD	GLN A	38	-18.978	-0.384	1.201	1.00	0.00
ATOM 537	OE1	GLN A	38	-19.832	-1.118	1.697	1.00	0.00
ATOM 538	NE2	GLN A	38	-19.123	0.178	0.007	1.00	0.00
ATOM 539	H	GLN A	38	-17.568	-3.284	1.447	1.00	0.00
ATOM 540	HA	GLN A	38	-15.470	-1.402	1.726	1.00	0.00

ATOM 541	1HB	GLN A	38	-18.117	-1.849	3.027	1.00	0.00
ATOM 542	2HB	GLN A	38	-16.975	-0.769	3.815	1.00	0.00
ATOM 543	1HG	GLN A	38	-17.834	0.821	2.524	1.00	0.00
ATOM 544	2HG	GLN A	38	-16.907	0.090	1.215	1.00	0.00
ATOM 545	1HE2	GLN A	38	-18.400	0.751	-0.326	1.00	0.00
ATOM 546	2HE2	GLN A	38	-19.945	-0.003	-0.494	1.00	0.00
ATOM 547	N	GLN A	39	-15.607	-3.811	3.909	1.00	0.00
ATOM 548	CA	GLN A	39	-14.897	-4.454	5.010	1.00	0.00
ATOM 549	C	GLN A	39	-13.404	-4.552	4.714	1.00	0.00
ATOM 550	O	GLN A	39	-12.585	-3.936	5.396	1.00	0.00
ATOM 551	CB	GLN A	39	-15.471	-5.849	5.269	1.00	0.00
ATOM 552	CG	GLN A	39	-16.526	-5.877	6.363	1.00	0.00
ATOM 553	CD	GLN A	39	-15.945	-6.198	7.726	1.00	0.00
ATOM 554	OE1	GLN A	39	-15.495	-5.307	8.447	1.00	0.00
ATOM 555	NE2	GLN A	39	-15.950	-7.476	8.087	1.00	0.00
ATOM 556	H	GLN A	39	-16.344	-4.288	3.471	1.00	0.00
ATOM 557	HA	GLN A	39	-15.037	-3.848	5.892	1.00	0.00
ATOM 558	1HB	GLN A	39	-15.917	-6.218	4.359	1.00	0.00
ATOM 559	2HB	GLN A	39	-14.666	-6.509	5.559	1.00	0.00
ATOM 560	1HG	GLN A	39	-17.003	-4.911	6.411	1.00	0.00
ATOM 561	2HG	GLN A	39	-17.261	-6.629	6.116	1.00	0.00
ATOM 562	1HE2	GLN A	39	-16.325	-8.132	7.461	1.00	0.00
ATOM 563	2HE2	GLN A	39	-15.580	-7.711	8.963	1.00	0.00
ATOM 564	N	THR A	40	-13.056	-5.332	3.696	1.00	0.00
ATOM 565	CA	THR A	40	-11.660	-5.511	3.312	1.00	0.00
ATOM 566	C	THR A	40	-11.073	-4.215	2.762	1.00	0.00
ATOM 567	O	THR A	40	-9.878	-3.956	2.900	1.00	0.00

ATOM 568	CB	THR A	40	-11.535	-6.623	2.270	1.00	0.00
ATOM 569	OG1	THR A	40	-12.214	-7.790	2.697	1.00	0.00
ATOM 570	CG2	THR A	40	-10.102	-7.008	1.975	1.00	0.00
ATOM 571	H	THR A	40	-13.754	-5.798	3.191	1.00	0.00
ATOM 572	HA	THR A	40	-11.109	-5.795	4.195	1.00	0.00
ATOM 573	HB	THR A	40	-11.985	-6.289	1.345	1.00	0.00
ATOM 574	HG1	THR A	40	-11.890	-8.051	3.562	1.00	0.00
ATOM 575	1HG2	THR A	40	-9.457	-6.159	2.152	1.00	0.00
ATOM 576	2HG2	THR A	40	-10.016	-7.313	0.942	1.00	0.00
ATOM 577	3HG2	THR A	40	-9.808	-7.824	2.618	1.00	0.00
ATOM 578	N	LYS A	41	-11.921	-3.404	2.137	1.00	0.00
ATOM 579	CA	LYS A	41	-11.485	-2.135	1.565	1.00	0.00
ATOM 580	C	LYS A	41	-10.864	-1.240	2.632	1.00	0.00
ATOM 581	O	LYS A	41	-9.939	-0.476	2.355	1.00	0.00
ATOM 582	CB	LYS A	41	-12.665	-1.417	0.905	1.00	0.00
ATOM 583	CG	LYS A	41	-12.280	-0.116	0.219	1.00	0.00
ATOM 584	CD	LYS A	41	-13.507	0.672	-0.209	1.00	0.00
ATOM 585	CE	LYS A	41	-13.235	1.492	-1.459	1.00	0.00
ATOM 586	NZ	LYS A	41	-12.920	2.910	-1.135	1.00	0.00
ATOM 587	H	LYS A	41	-12.863	-3.665	2.058	1.00	0.00
ATOM 588	HA	LYS A	41	-10.740	-2.349	0.813	1.00	0.00
ATOM 589	1HB	LYS A	41	-13.101	-2.073	0.166	1.00	0.00
ATOM 590	2HB	LYS A	41	-13.404	-1.196	1.658	1.00	0.00
ATOM 591	1HG	LYS A	41	-11.700	0.483	0.905	1.00	0.00
ATOM 592	2HG	LYS A	41	-11.686	-0.343	-0.654	1.00	0.00
ATOM 593	1HD	LYS A	41	-14.313	-0.017	-0.412	1.00	0.00
ATOM 594	2HD	LYS A	41	-13.792	1.338	0.593	1.00	0.00

ATOM 595	1HE	LYS	A	41	-12.396	1.058	-1.984	1.00	0.00
ATOM 596	2HE	LYS	A	41	-14.109	1.461	-2.092	1.00	0.00
ATOM 597	1HZ	LYS	A	41	-13.787	3.414	-0.854	1.00	0.00
ATOM 598	2HZ	LYS	A	41	-12.512	3.386	-1.965	1.00	0.00
ATOM 599	3HZ	LYS	A	41	-12.237	2.955	-0.352	1.00	0.00
ATOM 600	N	ARG	A	42	-11.379	-1.338	3.853	1.00	0.00
ATOM 601	CA	ARG	A	42	-10.874	-0.536	4.963	1.00	0.00
ATOM 602	C	ARG	A	42	-9.630	-1.172	5.573	1.00	0.00
ATOM 603	O	ARG	A	42	-8.744	-0.476	6.067	1.00	0.00
ATOM 604	CB	ARG	A	42	-11.955	-0.372	6.033	1.00	0.00
ATOM 605	CG	ARG	A	42	-11.728	0.821	6.947	1.00	0.00
ATOM 606	CD	ARG	A	42	-13.037	1.494	7.327	1.00	0.00
ATOM 607	NE	ARG	A	42	-13.212	1.574	8.775	1.00	0.00
ATOM 608	CZ	ARG	A	42	-13.464	0.522	9.550	1.00	0.00
ATOM 609	NH1	ARG	A	42	-13.572	-0.691	9.021	1.00	0.00
ATOM 610	NH2	ARG	A	42	-13.608	0.681	10.858	1.00	0.00
ATOM 611	H	ARG	A	42	-12.116	-1.964	4.013	1.00	0.00
ATOM 612	HA	ARG	A	42	-10.613	0.437	4.575	1.00	0.00
ATOM 613	1HB	ARG	A	42	-12.911	-0.249	5.546	1.00	0.00
ATOM 614	2HB	ARG	A	42	-11.981	-1.264	6.641	1.00	0.00
ATOM 615	1HG	ARG	A	42	-11.235	0.484	7.847	1.00	0.00
ATOM 616	2HG	ARG	A	42	-11.100	1.537	6.438	1.00	0.00
ATOM 617	1HD	ARG	A	42	-13.046	2.493	6.918	1.00	0.00
ATOM 618	2HD	ARG	A	42	-13.856	0.927	6.905	1.00	0.00
ATOM 619	HE	ARG	A	42	-13.138	2.458	9.191	1.00	0.00
ATOM 620	1HH1	ARG	A	42	-13.463	-0.819	8.035	1.00	0.00
ATOM 621	2HH1	ARG	A	42	-13.760	-1.478	9.608	1.00	0.00

ATOM 622	1HH2	ARG	A	42	-13.529	1.593	11.263	1.00	0.00
ATOM 623	2HH2	ARG	A	42	-13.797	-0.109	11.441	1.00	0.00
ATOM 624	N	SER	A	43	-9.570	-2.499	5.536	1.00	0.00
ATOM 625	CA	SER	A	43	-8.434	-3.230	6.086	1.00	0.00
ATOM 626	C	SER	A	43	-7.155	-2.902	5.323	1.00	0.00
ATOM 627	O	SER	A	43	-6.142	-2.536	5.918	1.00	0.00
ATOM 628	CB	SER	A	43	-8.700	-4.736	6.041	1.00	0.00
ATOM 629	OG	SER	A	43	-8.334	-5.356	7.262	1.00	0.00
ATOM 630	H	SER	A	43	-10.309	-3.000	5.129	1.00	0.00
ATOM 631	HA	SER	A	43	-8.313	-2.926	7.115	1.00	0.00
ATOM 632	1HB	SER	A	43	-9.752	-4.909	5.867	1.00	0.00
ATOM 633	2HB	SER	A	43	-8.126	-5.178	5.240	1.00	0.00
ATOM 634	HG	SER	A	43	-9.094	-5.810	7.631	1.00	0.00
ATOM 635	N	ILE	A	44	-7.209	-3.036	4.001	1.00	0.00
ATOM 636	CA	ILE	A	44	-6.055	-2.752	3.157	1.00	0.00
ATOM 637	C	ILE	A	44	-5.651	-1.284	3.258	1.00	0.00
ATOM 638	O	ILE	A	44	-4.471	-0.963	3.388	1.00	0.00
ATOM 639	CB	ILE	A	44	-6.335	-3.099	1.681	1.00	0.00
ATOM 640	CG1	ILE	A	44	-6.846	-4.537	1.560	1.00	0.00
ATOM 641	CG2	ILE	A	44	-5.079	-2.905	0.841	1.00	0.00
ATOM 642	CD1	ILE	A	44	-7.157	-4.949	0.138	1.00	0.00
ATOM 643	H	ILE	A	44	-8.046	-3.330	3.583	1.00	0.00
ATOM 644	HA	ILE	A	44	-5.233	-3.365	3.500	1.00	0.00
ATOM 645	HB	ILE	A	44	-7.092	-2.423	1.313	1.00	0.00
ATOM 646	1HG1	ILE	A	44	-6.096	-5.212	1.944	1.00	0.00
ATOM 647	2HG1	ILE	A	44	-7.749	-4.641	2.143	1.00	0.00
ATOM 648	1HG2	ILE	A	44	-5.122	-1.946	0.347	1.00	0.00



ATOM 649	2HG2	ILE	A	44	-5.016	-3.689	0.102	1.00	0.00
ATOM 650	3HG2	ILE	A	44	-4.210	-2.942	1.481	1.00	0.00
ATOM 651	1HD1	ILE	A	44	-6.630	-4.303	-0.548	1.00	0.00
ATOM 652	2HD1	ILE	A	44	-8.220	-4.868	-0.035	1.00	0.00
ATOM 653	3HD1	ILE	A	44	-6.844	-5.971	-0.017	1.00	0.00
ATOM 654	N	GLU	A	45	-6.641	-0.399	3.198	1.00	0.00
ATOM 655	CA	GLU	A	45	-6.389	1.035	3.285	1.00	0.00
ATOM 656	C	GLU	A	45	-5.703	1.386	4.602	1.00	0.00
ATOM 657	O	GLU	A	45	-4.937	2.346	4.677	1.00	0.00
ATOM 658	CB	GLU	A	45	-7.700	1.812	3.155	1.00	0.00
ATOM 659	CG	GLU	A	45	-7.505	3.296	2.888	1.00	0.00
ATOM 660	CD	GLU	A	45	-7.838	4.154	4.093	1.00	0.00
ATOM 661	OE1	GLU	A	45	-7.198	5.213	4.263	1.00	0.00
ATOM 662	OE2	GLU	A	45	-8.740	3.768	4.867	1.00	0.00
ATOM 663	H	GLU	A	45	-7.562	-0.718	3.095	1.00	0.00
ATOM 664	HA	GLU	A	45	-5.736	1.307	2.469	1.00	0.00
ATOM 665	1HB	GLU	A	45	-8.273	1.395	2.340	1.00	0.00
ATOM 666	2HB	GLU	A	45	-8.263	1.703	4.070	1.00	0.00
ATOM 667	1HG	GLU	A	45	-6.474	3.467	2.617	1.00	0.00
ATOM 668	2HG	GLU	A	45	-8.145	3.588	2.068	1.00	0.00
ATOM 669	N	ASN	A	46	-5.984	0.601	5.637	1.00	0.00
ATOM 670	CA	ASN	A	46	-5.394	0.826	6.951	1.00	0.00
ATOM 671	C	ASN	A	46	-3.940	0.366	6.979	1.00	0.00
ATOM 672	O	ASN	A	46	-3.067	1.064	7.496	1.00	0.00
ATOM 673	CB	ASN	A	46	-6.195	0.085	8.024	1.00	0.00
ATOM 674	CG	ASN	A	46	-6.335	0.891	9.301	1.00	0.00
ATOM 675	OD1	ASN	A	46	-5.778	1.981	9.426	1.00	0.00

ATOM 676	ND2	ASN	A	46	-7.083	0.355	10.259	1.00	0.00
ATOM 677	H	ASN	A	46	-6.602	-0.149	5.514	1.00	0.00
ATOM 678	HA	ASN	A	46	-5.430	1.885	7.154	1.00	0.00
ATOM 679	1HB	ASN	A	46	-7.183	-0.126	7.645	1.00	0.00
ATOM 680	2HB	ASN	A	46	-5.698	-0.844	8.260	1.00	0.00
ATOM 681	1HD2	ASN	A	46	-7.496	-0.518	10.090	1.00	0.00
ATOM 682	2HD2	ASN	A	46	-7.191	0.854	11.096	1.00	0.00
ATOM 683	N	ALA	A	47	-3.688	-0.813	6.420	1.00	0.00
ATOM 684	CA	ALA	A	47	-2.341	-1.370	6.379	1.00	0.00
ATOM 685	C	ALA	A	47	-1.408	-0.494	5.550	1.00	0.00
ATOM 686	O	ALA	A	47	-0.220	-0.379	5.849	1.00	0.00
ATOM 687	CB	ALA	A	47	-2.374	-2.784	5.822	1.00	0.00
ATOM 688	H	ALA	A	47	-4.427	-1.321	6.025	1.00	0.00
ATOM 689	HA	ALA	A	47	-1.969	-1.416	7.392	1.00	0.00
ATOM 690	1HB	ALA	A	47	-3.023	-2.816	4.959	1.00	0.00
ATOM 691	2HB	ALA	A	47	-2.746	-3.460	6.577	1.00	0.00
ATOM 692	3HB	ALA	A	47	-1.377	-3.080	5.534	1.00	0.00
ATOM 693	N	LEU	A	48	-1.954	0.120	4.506	1.00	0.00
ATOM 694	CA	LEU	A	48	-1.169	0.984	3.630	1.00	0.00
ATOM 695	C	LEU	A	48	-0.799	2.284	4.338	1.00	0.00
ATOM 696	O	LEU	A	48	0.272	2.845	4.106	1.00	0.00
ATOM 697	CB	LEU	A	48	-1.949	1.292	2.350	1.00	0.00
ATOM 698	CG	LEU	A	48	-2.005	0.148	1.337	1.00	0.00
ATOM 699	CD1	LEU	A	48	-2.992	0.469	0.225	1.00	0.00
ATOM 700	CD2	LEU	A	48	-0.623	-0.123	0.762	1.00	0.00
ATOM 701	H	LEU	A	48	-2.906	-0.011	4.317	1.00	0.00
ATOM 702	HA	LEU	A	48	-0.263	0.458	3.372	1.00	0.00

ATOM 703	1HB	LEU	A	48	-2.959	1.554	2.624	1.00	0.00
ATOM 704	2HB	LEU	A	48	-1.491	2.144	1.871	1.00	0.00
ATOM 705	HG	LEU	A	48	-2.344	-0.750	1.834	1.00	0.00
ATOM 706	1HD1	LEU	A	48	-3.710	1.194	0.579	1.00	0.00
ATOM 707	2HD1	LEU	A	48	-3.507	-0.433	-0.071	1.00	0.00
ATOM 708	3HD1	LEU	A	48	-2.461	0.874	-0.623	1.00	0.00
ATOM 709	1HD2	LEU	A	48	0.033	-0.465	1.549	1.00	0.00
ATOM 710	2HD2	LEU	A	48	-0.227	0.784	0.332	1.00	0.00
ATOM 711	3HD2	LEU	A	48	-0.694	-0.883	-0.003	1.00	0.00
ATOM 712	N	ASN	A	49	-1.691	2.758	5.201	1.00	0.00
ATOM 713	CA	ASN	A	49	-1.457	3.994	5.941	1.00	0.00
ATOM 714	C	ASN	A	49	-0.253	3.858	6.866	1.00	0.00
ATOM 715	O	ASN	A	49	0.720	4.603	6.748	1.00	0.00
ATOM 716	CB	ASN	A	49	-2.698	4.367	6.753	1.00	0.00
ATOM 717	CG	ASN	A	49	-2.656	5.802	7.243	1.00	0.00
ATOM 718	OD1	ASN	A	49	-1.610	6.296	7.663	1.00	0.00
ATOM 719	ND2	ASN	A	49	-3.798	6.477	7.195	1.00	0.00
ATOM 720	H	ASN	A	49	-2.526	2.267	5.343	1.00	0.00
ATOM 721	HA	ASN	A	49	-1.260	4.775	5.224	1.00	0.00
ATOM 722	1HB	ASN	A	49	-3.576	4.243	6.137	1.00	0.00
ATOM 723	2HB	ASN	A	49	-2.771	3.715	7.610	1.00	0.00
ATOM 724	1HD2	ASN	A	49	-4.592	6.020	6.849	1.00	0.00
ATOM 725	2HD2	ASN	A	49	-3.799	7.407	7.505	1.00	0.00
ATOM 726	N	GLN	A	50	-0.325	2.905	7.791	1.00	0.00
ATOM 727	CA	GLN	A	50	0.760	2.675	8.739	1.00	0.00
ATOM 728	C	GLN	A	50	2.075	2.408	8.015	1.00	0.00
ATOM 729	O	GLN	A	50	3.149	2.729	8.522	1.00	0.00

ATOM 730	CB	GLN A	50	0.423	1.499	9.658	1.00	0.00
ATOM 731	CG	GLN A	50	0.014	0.239	8.913	1.00	0.00
ATOM 732	CD	GLN A	50	-1.064	-0.542	9.638	1.00	0.00
ATOM 733	OE1	GLN A	50	-2.253	-0.389	9.357	1.00	0.00
ATOM 734	NE2	GLN A	50	-0.654	-1.385	10.578	1.00	0.00
ATOM 735	H	GLN A	50	-1.128	2.345	7.838	1.00	0.00
ATOM 736	HA	GLN A	50	0.868	3.566	9.338	1.00	0.00
ATOM 737	1HB	GLN A	50	1.289	1.269	10.262	1.00	0.00
ATOM 738	2HB	GLN A	50	-0.391	1.786	10.308	1.00	0.00
ATOM 739	1HG	GLN A	50	-0.358	0.517	7.938	1.00	0.00
ATOM 740	2HG	GLN A	50	0.882	-0.394	8.800	1.00	0.00
ATOM 741	1HE2	GLN A	50	0.310	-1.455	10.749	1.00	0.00
ATOM 742	2HE2	GLN A	50	-1.329	-1.904	11.063	1.00	0.00
ATOM 743	N	LEU A	51	1.985	1.822	6.825	1.00	0.00
ATOM 744	CA	LEU A	51	3.171	1.516	6.033	1.00	0.00
ATOM 745	C	LEU A	51	3.897	2.794	5.627	1.00	0.00
ATOM 746	O	LEU A	51	5.119	2.886	5.728	1.00	0.00
ATOM 747	CB	LEU A	51	2.788	0.714	4.787	1.00	0.00
ATOM 748	CG	LEU A	51	3.941	-0.045	4.127	1.00	0.00
ATOM 749	CD1	LEU A	51	3.430	-1.305	3.445	1.00	0.00
ATOM 750	CD2	LEU A	51	4.663	0.848	3.129	1.00	0.00
ATOM 751	H	LEU A	51	1.100	1.590	6.471	1.00	0.00
ATOM 752	HA	LEU A	51	3.832	0.921	6.644	1.00	0.00
ATOM 753	1HB	LEU A	51	2.025	0.001	5.064	1.00	0.00
ATOM 754	2HB	LEU A	51	2.374	1.395	4.060	1.00	0.00
ATOM 755	HG	LEU A	51	4.650	-0.341	4.887	1.00	0.00
ATOM 756	1HD1	LEU A	51	2.406	-1.157	3.136	1.00	0.00

ATOM 757	2HD1	LEU	A	51	3.482	-2.134	4.136	1.00	0.00
ATOM 758	3HD1	LEU	A	51	4.041	-1.519	2.581	1.00	0.00
ATOM 759	1HD2	LEU	A	51	4.972	1.758	3.619	1.00	0.00
ATOM 760	2HD2	LEU	A	51	3.998	1.085	2.312	1.00	0.00
ATOM 761	3HD2	LEU	A	51	5.532	0.331	2.747	1.00	0.00
ATOM 762	N	PHE	A	52	3.134	3.782	5.169	1.00	0.00
ATOM 763	CA	PHE	A	52	3.707	5.055	4.749	1.00	0.00
ATOM 764	C	PHE	A	52	4.416	5.743	5.911	1.00	0.00
ATOM 765	O	PHE	A	52	5.381	6.481	5.712	1.00	0.00
ATOM 766	CB	PHE	A	52	2.614	5.970	4.192	1.00	0.00
ATOM 767	CG	PHE	A	52	1.712	5.294	3.200	1.00	0.00
ATOM 768	CD1	PHE	A	52	0.338	5.458	3.270	1.00	0.00
ATOM 769	CD2	PHE	A	52	2.237	4.494	2.198	1.00	0.00
ATOM 770	CE1	PHE	A	52	-0.496	4.839	2.359	1.00	0.00
ATOM 771	CE2	PHE	A	52	1.408	3.871	1.284	1.00	0.00
ATOM 772	CZ	PHE	A	52	0.039	4.044	1.364	1.00	0.00
ATOM 773	H	PHE	A	52	2.165	3.650	5.111	1.00	0.00
ATOM 774	HA	PHE	A	52	4.427	4.854	3.970	1.00	0.00
ATOM 775	1HB	PHE	A	52	2.003	6.327	5.006	1.00	0.00
ATOM 776	2HB	PHE	A	52	3.077	6.813	3.700	1.00	0.00
ATOM 777	HD1	PHE	A	52	-0.082	6.080	4.046	1.00	0.00
ATOM 778	HD2	PHE	A	52	3.307	4.358	2.134	1.00	0.00
ATOM 779	HE1	PHE	A	52	-1.565	4.975	2.425	1.00	0.00
ATOM 780	HE2	PHE	A	52	1.829	3.250	0.507	1.00	0.00
ATOM 781	HZ	PHE	A	52	-0.610	3.559	0.651	1.00	0.00
ATOM 782	N	ARG	A	53	3.932	5.496	7.124	1.00	0.00
ATOM 783	CA	ARG	A	53	4.520	6.093	8.318	1.00	0.00

ATOM 784	C	ARG A	53	5.690	5.259	8.831	1.00	0.00
ATOM 785	O	ARG A	53	6.602	5.781	9.470	1.00	0.00
ATOM 786	CB	ARG A	53	3.463	6.236	9.415	1.00	0.00
ATOM 787	CG	ARG A	53	2.174	6.887	8.937	1.00	0.00
ATOM 788	CD	ARG A	53	2.022	8.301	9.479	1.00	0.00
ATOM 789	NE	ARG A	53	0.831	8.442	10.316	1.00	0.00
ATOM 790	CZ	ARG A	53	0.779	8.085	11.597	1.00	0.00
ATOM 791	NH1	ARG A	53	1.844	7.565	12.196	1.00	0.00
ATOM 792	NH2	ARG A	53	-0.344	8.249	12.284	1.00	0.00
ATOM 793	H	ARG A	53	3.160	4.900	7.218	1.00	0.00
ATOM 794	HA	ARG A	53	4.883	7.074	8.052	1.00	0.00
ATOM 795	1HB	ARG A	53	3.224	5.254	9.798	1.00	0.00
ATOM 796	2HB	ARG A	53	3.871	6.836	10.214	1.00	0.00
ATOM 797	1HG	ARG A	53	2.180	6.926	7.859	1.00	0.00
ATOM 798	2HG	ARG A	53	1.337	6.291	9.272	1.00	0.00
ATOM 799	1HD	ARG A	53	2.894	8.547	10.066	1.00	0.00
ATOM 800	2HD	ARG A	53	1.946	8.985	8.646	1.00	0.00
ATOM 801	HE	ARG A	53	0.029	8.822	9.901	1.00	0.00
ATOM 802	1HH1	ARG A	53	2.693	7.439	11.684	1.00	0.00
ATOM 803	2HH1	ARG A	53	1.796	7.301	13.158	1.00	0.00
ATOM 804	1HH2	ARG A	53	-1.150	8.639	11.840	1.00	0.00
ATOM 805	2HH2	ARG A	53	-0.385	7.981	13.247	1.00	0.00
ATOM 806	N	ASN A	54	5.658	3.959	8.550	1.00	0.00
ATOM 807	CA	ASN A	54	6.718	3.057	8.988	1.00	0.00
ATOM 808	C	ASN A	54	7.741	2.830	7.879	1.00	0.00
ATOM 809	O	ASN A	54	8.417	1.802	7.847	1.00	0.00
ATOM 810	CB	ASN A	54	6.125	1.719	9.431	1.00	0.00

ATOM 811	CG	ASN A	54	5.364	1.828	10.737	1.00	0.00
ATOM 812	OD1	ASN A	54	5.897	2.299	11.741	1.00	0.00
ATOM 813	ND2	ASN A	54	4.110	1.391	10.729	1.00	0.00
ATOM 814	H	ASN A	54	4.904	3.598	8.038	1.00	0.00
ATOM 815	HA	ASN A	54	7.215	3.516	9.830	1.00	0.00
ATOM 816	1HB	ASN A	54	5.447	1.363	8.669	1.00	0.00
ATOM 817	2HB	ASN A	54	6.924	1.003	9.558	1.00	0.00
ATOM 818	1HD2	ASN A	54	3.751	1.028	9.893	1.00	0.00
ATOM 819	2HD2	ASN A	54	3.594	1.450	11.560	1.00	0.00
ATOM 820	N	SER A	55	7.854	3.796	6.971	1.00	0.00
ATOM 821	CA	SER A	55	8.798	3.696	5.863	1.00	0.00
ATOM 822	C	SER A	55	9.759	4.880	5.858	1.00	0.00
ATOM 823	O	SER A	55	9.578	5.842	6.602	1.00	0.00
ATOM 824	CB	SER A	55	8.048	3.628	4.532	1.00	0.00
ATOM 825	OG	SER A	55	6.864	4.406	4.573	1.00	0.00
ATOM 826	H	SER A	55	7.291	4.594	7.047	1.00	0.00
ATOM 827	HA	SER A	55	9.366	2.786	5.992	1.00	0.00
ATOM 828	1HB	SER A	55	8.683	4.003	3.743	1.00	0.00
ATOM 829	2HB	SER A	55	7.783	2.602	4.323	1.00	0.00
ATOM 830	HG	SER A	55	6.693	4.776	3.704	1.00	0.00
ATOM 831	N	SER A	56	10.783	4.801	5.013	1.00	0.00
ATOM 832	CA	SER A	56	11.774	5.866	4.910	1.00	0.00
ATOM 833	C	SER A	56	11.117	7.182	4.507	1.00	0.00
ATOM 834	O	SER A	56	11.559	8.258	4.911	1.00	0.00
ATOM 835	CB	SER A	56	12.854	5.490	3.894	1.00	0.00
ATOM 836	OG	SER A	56	13.866	6.481	3.836	1.00	0.00
ATOM 837	H	SER A	56	10.873	4.007	4.444	1.00	0.00

ATOM 838	HA	SER A	56	12.231	5.988	5.880	1.00	0.00
ATOM 839	1HB	SER A	56	13.304	4.552	4.181	1.00	0.00
ATOM 840	2HB	SER A	56	12.407	5.391	2.916	1.00	0.00
ATOM 841	HG	SER A	56	13.494	7.299	3.498	1.00	0.00
ATOM 842	N	ILE A	57	10.057	7.089	3.711	1.00	0.00
ATOM 843	CA	ILE A	57	9.337	8.272	3.254	1.00	0.00
ATOM 844	C	ILE A	57	8.151	8.575	4.165	1.00	0.00
ATOM 845	O	ILE A	57	7.043	8.840	3.695	1.00	0.00
ATOM 846	CB	ILE A	57	8.835	8.100	1.807	1.00	0.00
ATOM 847	CG1	ILE A	57	7.911	6.885	1.704	1.00	0.00
ATOM 848	CG2	ILE A	57	10.009	7.962	0.851	1.00	0.00
ATOM 849	CD1	ILE A	57	7.263	6.732	0.346	1.00	0.00
ATOM 850	H	ILE A	57	9.752	6.204	3.423	1.00	0.00
ATOM 851	HA	ILE A	57	10.020	9.108	3.279	1.00	0.00
ATOM 852	HB	ILE A	57	8.283	8.987	1.534	1.00	0.00
ATOM 853	1HG1	ILE A	57	8.481	5.990	1.900	1.00	0.00
ATOM 854	2HG1	ILE A	57	7.124	6.975	2.439	1.00	0.00
ATOM 855	1HG2	ILE A	57	10.745	7.298	1.279	1.00	0.00
ATOM 856	2HG2	ILE A	57	10.453	8.931	0.683	1.00	0.00
ATOM 857	3HG2	ILE A	57	9.663	7.557	-0.089	1.00	0.00
ATOM 858	1HD1	ILE A	57	6.306	6.244	0.455	1.00	0.00
ATOM 859	2HD1	ILE A	57	7.899	6.136	-0.292	1.00	0.00
ATOM 860	3HD1	ILE A	57	7.119	7.707	-0.098	1.00	0.00
ATOM 861	N	LYS A	58	8.391	8.532	5.471	1.00	0.00
ATOM 862	CA	LYS A	58	7.345	8.801	6.451	1.00	0.00
ATOM 863	C	LYS A	58	7.365	10.264	6.885	1.00	0.00
ATOM 864	O	LYS A	58	7.243	10.573	8.070	1.00	0.00



ATOM 865	CB	LYS A	58	7.516	7.893	7.671	1.00	0.00
ATOM 866	CG	LYS A	58	8.851	8.068	8.376	1.00	0.00
ATOM 867	CD	LYS A	58	8.949	7.186	9.610	1.00	0.00
ATOM 868	CE	LYS A	58	10.219	7.468	10.396	1.00	0.00
ATOM 869	NZ	LYS A	58	11.297	6.491	10.080	1.00	0.00
ATOM 870	H	LYS A	58	9.294	8.315	5.784	1.00	0.00
ATOM 871	HA	LYS A	58	6.394	8.590	5.987	1.00	0.00
ATOM 872	1HB	LYS A	58	6.729	8.106	8.378	1.00	0.00
ATOM 873	2HB	LYS A	58	7.434	6.864	7.353	1.00	0.00
ATOM 874	1HG	LYS A	58	9.645	7.804	7.693	1.00	0.00
ATOM 875	2HG	LYS A	58	8.957	9.102	8.673	1.00	0.00
ATOM 876	1HD	LYS A	58	8.096	7.374	10.245	1.00	0.00
ATOM 877	2HD	LYS A	58	8.950	6.151	9.302	1.00	0.00
ATOM 878	1HE	LYS A	58	10.565	8.461	10.153	1.00	0.00
ATOM 879	2HE	LYS A	58	9.994	7.415	11.451	1.00	0.00
ATOM 880	1HZ	LYS A	58	12.036	6.524	10.813	1.00	0.00
ATOM 881	2HZ	LYS A	58	11.726	6.715	9.160	1.00	0.00
ATOM 882	3HZ	LYS A	58	10.906	5.527	10.042	1.00	0.00
ATOM 883	N	SER A	59	7.521	11.161	5.917	1.00	0.00
ATOM 884	CA	SER A	59	7.557	12.591	6.199	1.00	0.00
ATOM 885	C	SER A	59	6.718	13.366	5.188	1.00	0.00
ATOM 886	O	SER A	59	5.927	14.233	5.558	1.00	0.00
ATOM 887	CB	SER A	59	9.000	13.100	6.179	1.00	0.00
ATOM 888	OG	SER A	59	9.729	12.610	7.290	1.00	0.00
ATOM 889	H	SER A	59	7.614	10.854	4.992	1.00	0.00
ATOM 890	HA	SER A	59	7.145	12.745	7.185	1.00	0.00
ATOM 891	1HB	SER A	59	9.483	12.767	5.272	1.00	0.00

ATOM 892	2HB	SER A	59	8.999	14.179	6.210	1.00	0.00
ATOM 893	HG	SER A	59	10.578	12.275	6.994	1.00	0.00
ATOM 894	N	TYR A	60	6.897	13.047	3.911	1.00	0.00
ATOM 895	CA	TYR A	60	6.156	13.712	2.845	1.00	0.00
ATOM 896	C	TYR A	60	4.867	12.963	2.527	1.00	0.00
ATOM 897	O	TYR A	60	3.862	13.567	2.151	1.00	0.00
ATOM 898	CB	TYR A	60	7.019	13.822	1.588	1.00	0.00
ATOM 899	CG	TYR A	60	8.150	14.819	1.713	1.00	0.00
ATOM 900	CD1	TYR A	60	7.914	16.110	2.169	1.00	0.00
ATOM 901	CD2	TYR A	60	9.451	14.470	1.375	1.00	0.00
ATOM 902	CE1	TYR A	60	8.944	17.025	2.284	1.00	0.00
ATOM 903	CE2	TYR A	60	10.486	15.378	1.488	1.00	0.00
ATOM 904	CZ	TYR A	60	10.228	16.654	1.943	1.00	0.00
ATOM 905	OH	TYR A	60	11.256	17.561	2.057	1.00	0.00
ATOM 906	H	TYR A	60	7.542	12.346	3.678	1.00	0.00
ATOM 907	HA	TYR A	60	5.906	14.706	3.187	1.00	0.00
ATOM 908	1HB	TYR A	60	7.452	12.857	1.372	1.00	0.00
ATOM 909	2HB	TYR A	60	6.397	14.127	0.758	1.00	0.00
ATOM 910	HD1	TYR A	60	6.909	16.398	2.436	1.00	0.00
ATOM 911	HD2	TYR A	60	9.650	13.470	1.018	1.00	0.00
ATOM 912	HE1	TYR A	60	8.742	18.024	2.640	1.00	0.00
ATOM 913	HE2	TYR A	60	11.491	15.087	1.220	1.00	0.00
ATOM 914	HH	TYR A	60	11.925	17.215	2.652	1.00	0.00
ATOM 915	N	PHE A	61	4.902	11.643	2.681	1.00	0.00
ATOM 916	CA	PHE A	61	3.734	10.811	2.410	1.00	0.00
ATOM 917	C	PHE A	61	2.569	11.200	3.315	1.00	0.00
ATOM 918	O	PHE A	61	2.740	11.378	4.521	1.00	0.00

ATOM 919	CB	PHE A	61	4.078	9.334	2.608	1.00	0.00
ATOM 920	CG	PHE A	61	3.239	8.407	1.775	1.00	0.00
ATOM 921	CD1	PHE A	61	3.821	7.608	0.805	1.00	0.00
ATOM 922	CD2	PHE A	61	1.868	8.335	1.964	1.00	0.00
ATOM 923	CE1	PHE A	61	3.052	6.754	0.037	1.00	0.00
ATOM 924	CE2	PHE A	61	1.094	7.484	1.198	1.00	0.00
ATOM 925	CZ	PHE A	61	1.687	6.692	0.234	1.00	0.00
ATOM 926	H	PHE A	61	5.731	11.219	2.984	1.00	0.00
ATOM 927	HA	PHE A	61	3.445	10.970	1.383	1.00	0.00
ATOM 928	1HB	PHE A	61	5.113	9.173	2.343	1.00	0.00
ATOM 929	2HB	PHE A	61	3.933	9.073	3.646	1.00	0.00
ATOM 930	HD1	PHE A	61	4.889	7.654	0.650	1.00	0.00
ATOM 931	HD2	PHE A	61	1.404	8.954	2.717	1.00	0.00
ATOM 932	HE1	PHE A	61	3.518	6.136	-0.716	1.00	0.00
ATOM 933	HE2	PHE A	61	0.027	7.437	1.355	1.00	0.00
ATOM 934	HZ	PHE A	61	1.083	6.026	-0.364	1.00	0.00
ATOM 935	N	SER A	62	1.387	11.331	2.724	1.00	0.00
ATOM 936	CA	SER A	62	0.193	11.699	3.477	1.00	0.00
ATOM 937	C	SER A	62	-0.677	10.476	3.750	1.00	0.00
ATOM 938	O	SER A	62	-0.783	10.019	4.887	1.00	0.00
ATOM 939	CB	SER A	62	-0.610	12.754	2.715	1.00	0.00
ATOM 940	OG	SER A	62	-1.060	13.779	3.584	1.00	0.00
ATOM 941	H	SER A	62	1.314	11.175	1.759	1.00	0.00
ATOM 942	HA	SER A	62	0.513	12.114	4.420	1.00	0.00
ATOM 943	1HB	SER A	62	0.013	13.196	1.951	1.00	0.00
ATOM 944	2HB	SER A	62	-1.469	12.288	2.253	1.00	0.00
ATOM 945	HG	SER A	62	-0.313	14.315	3.860	1.00	0.00

ATOM 946	N	ASP	A	63	-1.298	9.950	2.699	1.00	0.00
ATOM 947	CA	ASP	A	63	-2.160	8.780	2.827	1.00	0.00
ATOM 948	C	ASP	A	63	-2.384	8.118	1.472	1.00	0.00
ATOM 949	O	ASP	A	63	-1.749	8.478	0.480	1.00	0.00
ATOM 950	CB	ASP	A	63	-3.503	9.176	3.444	1.00	0.00
ATOM 951	CG	ASP	A	63	-4.021	8.136	4.417	1.00	0.00
ATOM 952	OD1	ASP	A	63	-4.131	6.956	4.022	1.00	0.00
ATOM 953	OD2	ASP	A	63	-4.316	8.499	5.574	1.00	0.00
ATOM 954	H	ASP	A	63	-1.174	10.359	1.817	1.00	0.00
ATOM 955	HA	ASP	A	63	-1.667	8.077	3.481	1.00	0.00
ATOM 956	1HB	ASP	A	63	-3.388	10.110	3.972	1.00	0.00
ATOM 957	2HB	ASP	A	63	-4.231	9.301	2.656	1.00	0.00
ATOM 958	N	CYS	A	64	-3.292	7.148	1.436	1.00	0.00
ATOM 959	CA	CYS	A	64	-3.600	6.434	0.203	1.00	0.00
ATOM 960	C	CYS	A	64	-5.085	6.537	-0.127	1.00	0.00
ATOM 961	O	CYS	A	64	-5.869	7.077	0.654	1.00	0.00
ATOM 962	CB	CYS	A	64	-3.194	4.964	0.323	1.00	0.00
ATOM 963	SG	CYS	A	64	-3.989	4.089	1.690	1.00	0.00
ATOM 964	H	CYS	A	64	-3.765	6.906	2.259	1.00	0.00
ATOM 965	HA	CYS	A	64	-3.034	6.891	-0.596	1.00	0.00
ATOM 966	1HB	CYS	A	64	-3.454	4.451	-0.590	1.00	0.00
ATOM 967	2HB	CYS	A	64	-2.125	4.906	0.472	1.00	0.00
ATOM 968	HG	CYS	A	64	-4.588	3.438	1.317	1.00	0.00
ATOM 969	N	GLN	A	65	-5.466	6.013	-1.288	1.00	0.00
ATOM 970	CA	GLN	A	65	-6.858	6.045	-1.720	1.00	0.00
ATOM 971	C	GLN	A	65	-7.218	4.774	-2.481	1.00	0.00
ATOM 972	O	GLN	A	65	-6.905	4.637	-3.665	1.00	0.00

ATOM 973	CB	GLN A	65	-7.114	7.269	-2.600	1.00	0.00
ATOM 974	CG	GLN A	65	-8.576	7.685	-2.651	1.00	0.00
ATOM 975	CD	GLN A	65	-8.790	8.961	-3.442	1.00	0.00
ATOM 976	OE1	GLN A	65	-8.266	10.018	-3.093	1.00	0.00
ATOM 977	NE2	GLN A	65	-9.566	8.868	-4.517	1.00	0.00
ATOM 978	H	GLN A	65	-4.794	5.595	-1.867	1.00	0.00
ATOM 979	HA	GLN A	65	-7.477	6.109	-0.838	1.00	0.00
ATOM 980	1HB	GLN A	65	-6.540	8.100	-2.216	1.00	0.00
ATOM 981	2HB	GLN A	65	-6.789	7.051	-3.605	1.00	0.00
ATOM 982	1HG	GLN A	65	-9.145	6.893	-3.114	1.00	0.00
ATOM 983	2HG	GLN A	65	-8.929	7.840	-1.643	1.00	0.00
ATOM 984	1HE2	GLN A	65	-9.950	7.993	-4.736	1.00	0.00
ATOM 985	2HE2	GLN A	65	-9.722	9.677	-5.047	1.00	0.00
ATOM 986	N	VAL A	66	-7.879	3.846	-1.796	1.00	0.00
ATOM 987	CA	VAL A	66	-8.282	2.588	-2.409	1.00	0.00
ATOM 988	C	VAL A	66	-9.421	2.803	-3.401	1.00	0.00
ATOM 989	O	VAL A	66	-10.570	3.017	-3.009	1.00	0.00
ATOM 990	CB	VAL A	66	-8.720	1.560	-1.346	1.00	0.00
ATOM 991	CG1	VAL A	66	-9.895	2.090	-0.538	1.00	0.00
ATOM 992	CG2	VAL A	66	-9.067	0.228	-1.995	1.00	0.00
ATOM 993	H	VAL A	66	-8.100	4.014	-0.856	1.00	0.00
ATOM 994	HA	VAL A	66	-7.431	2.186	-2.938	1.00	0.00
ATOM 995	HB	VAL A	66	-7.893	1.400	-0.670	1.00	0.00
ATOM 996	1HG1	VAL A	66	-9.753	1.848	0.505	1.00	0.00
ATOM 997	2HG1	VAL A	66	-10.809	1.636	-0.891	1.00	0.00
ATOM 998	3HG1	VAL A	66	-9.957	3.163	-0.654	1.00	0.00
ATOM 999	1HG2	VAL A	66	-8.612	0.175	-2.973	1.00	0.00

ATOM 1000	2HG2	VAL	A	66	-10.140	0.144	-2.093	1.00	0.00
ATOM 1001	3HG2	VAL	A	66	-8.697	-0.579	-1.381	1.00	0.00
ATOM 1002	N	LEU	A	67	-9.097	2.749	-4.688	1.00	0.00
ATOM 1003	CA	LEU	A	67	-10.091	2.939	-5.736	1.00	0.00
ATOM 1004	C	LEU	A	67	-11.031	1.740	-5.819	1.00	0.00
ATOM 1005	O	LEU	A	67	-12.245	1.880	-5.678	1.00	0.00
ATOM 1006	CB	LEU	A	67	-9.404	3.158	-7.085	1.00	0.00
ATOM 1007	CG	LEU	A	67	-8.219	4.123	-7.059	1.00	0.00
ATOM 1008	CD1	LEU	A	67	-7.652	4.308	-8.458	1.00	0.00
ATOM 1009	CD2	LEU	A	67	-8.635	5.461	-6.468	1.00	0.00
ATOM 1010	H	LEU	A	67	-8.164	2.576	-4.938	1.00	0.00
ATOM 1011	HA	LEU	A	67	-10.669	3.818	-5.490	1.00	0.00
ATOM 1012	1HB	LEU	A	67	-9.056	2.201	-7.447	1.00	0.00
ATOM 1013	2HB	LEU	A	67	-10.137	3.542	-7.780	1.00	0.00
ATOM 1014	HG	LEU	A	67	-7.440	3.709	-6.436	1.00	0.00
ATOM 1015	1HD1	LEU	A	67	-8.425	4.118	-9.187	1.00	0.00
ATOM 1016	2HD1	LEU	A	67	-6.836	3.618	-8.610	1.00	0.00
ATOM 1017	3HD1	LEU	A	67	-7.293	5.320	-8.570	1.00	0.00
ATOM 1018	1HD2	LEU	A	67	-7.919	6.219	-6.752	1.00	0.00
ATOM 1019	2HD2	LEU	A	67	-8.672	5.385	-5.392	1.00	0.00
ATOM 1020	3HD2	LEU	A	67	-9.611	5.732	-6.843	1.00	0.00
ATOM 1021	N	ALA	A	68	-10.459	0.563	-6.051	1.00	0.00
ATOM 1022	CA	ALA	A	68	-11.246	-0.660	-6.154	1.00	0.00
ATOM 1023	C	ALA	A	68	-10.346	-1.879	-6.324	1.00	0.00
ATOM 1024	O	ALA	A	68	-9.120	-1.766	-6.310	1.00	0.00
ATOM 1025	CB	ALA	A	68	-12.227	-0.560	-7.313	1.00	0.00
ATOM 1026	H	ALA	A	68	-9.487	0.516	-6.155	1.00	0.00

ATOM	1027	HA	ALA	A	68	-11.814	-0.769	-5.241	1.00	0.00
ATOM	1028	1HB	ALA	A	68	-12.464	-1.551	-7.670	1.00	0.00
ATOM	1029	2HB	ALA	A	68	-11.782	0.014	-8.112	1.00	0.00
ATOM	1030	3HB	ALA	A	68	-13.131	-0.072	-6.978	1.00	0.00
ATOM	1031	N	PHE	A	69	-10.963	-3.045	-6.485	1.00	0.00
ATOM	1032	CA	PHE	A	69	-10.218	-4.288	-6.658	1.00	0.00
ATOM	1033	C	PHE	A	69	-10.465	-4.883	-8.040	1.00	0.00
ATOM	1034	O	PHE	A	69	-11.608	-5.008	-8.479	1.00	0.00
ATOM	1035	CB	PHE	A	69	-10.614	-5.297	-5.578	1.00	0.00
ATOM	1036	CG	PHE	A	69	-10.369	-4.809	-4.179	1.00	0.00
ATOM	1037	CD1	PHE	A	69	-11.430	-4.573	-3.319	1.00	0.00
ATOM	1038	CD2	PHE	A	69	-9.080	-4.585	-3.724	1.00	0.00
ATOM	1039	CE1	PHE	A	69	-11.208	-4.124	-2.031	1.00	0.00
ATOM	1040	CE2	PHE	A	69	-8.852	-4.135	-2.438	1.00	0.00
ATOM	1041	CZ	PHE	A	69	-9.917	-3.904	-1.590	1.00	0.00
ATOM	1042	H	PHE	A	69	-11.942	-3.071	-6.487	1.00	0.00
ATOM	1043	HA	PHE	A	69	-9.167	-4.061	-6.558	1.00	0.00
ATOM	1044	1HB	PHE	A	69	-11.666	-5.520	-5.672	1.00	0.00
ATOM	1045	2HB	PHE	A	69	-10.046	-6.205	-5.719	1.00	0.00
ATOM	1046	HD1	PHE	A	69	-12.439	-4.744	-3.663	1.00	0.00
ATOM	1047	HD2	PHE	A	69	-8.246	-4.765	-4.387	1.00	0.00
ATOM	1048	HE1	PHE	A	69	-12.043	-3.943	-1.370	1.00	0.00
ATOM	1049	HE2	PHE	A	69	-7.842	-3.966	-2.096	1.00	0.00
ATOM	1050	HZ	PHE	A	69	-9.742	-3.553	-0.584	1.00	0.00
ATOM	1051	N	ARG	A	70	-9.384	-5.252	-8.721	1.00	0.00
ATOM	1052	CA	ARG	A	70	-9.483	-5.837	-10.053	1.00	0.00
ATOM	1053	C	ARG	A	70	-9.873	-7.309	-9.971	1.00	0.00

ATOM 1054	O	ARG A	70	-9.666	-7.959	-8.947	1.00	0.00
ATOM 1055	CB	ARG A	70	-8.154	-5.690	-10.797	1.00	0.00
ATOM 1056	CG	ARG A	70	-7.557	-4.295	-10.707	1.00	0.00
ATOM 1057	CD	ARG A	70	-8.302	-3.311	-11.592	1.00	0.00
ATOM 1058	NE	ARG A	70	-8.180	-3.647	-13.010	1.00	0.00
ATOM 1059	CZ	ARG A	70	-8.432	-2.793	-13.998	1.00	0.00
ATOM 1060	NH1	ARG A	70	-8.817	-1.551	-13.730	1.00	0.00
ATOM 1061	NH2	ARG A	70	-8.298	-3.179	-15.259	1.00	0.00
ATOM 1062	H	ARG A	70	-8.500	-5.128	-8.318	1.00	0.00
ATOM 1063	HA	ARG A	70	-10.249	-5.302	-10.595	1.00	0.00
ATOM 1064	1HB	ARG A	70	-7.443	-6.390	-10.384	1.00	0.00
ATOM 1065	2HB	ARG A	70	-8.312	-5.924	-11.840	1.00	0.00
ATOM 1066	1HG	ARG A	70	-7.613	-3.956	-9.683	1.00	0.00
ATOM 1067	2HG	ARG A	70	-6.524	-4.335	-11.018	1.00	0.00
ATOM 1068	1HD	ARG A	70	-9.347	-3.321	-11.320	1.00	0.00
ATOM 1069	2HD	ARG A	70	-7.898	-2.323	-11.430	1.00	0.00
ATOM 1070	HE	ARG A	70	-7.896	-4.557	-13.235	1.00	0.00
ATOM 1071	1HH1	ARG A	70	-8.920	-1.252	-12.782	1.00	0.00
ATOM 1072	2HH1	ARG A	70	-9.006	-0.914	-14.477	1.00	0.00
ATOM 1073	1HH2	ARG A	70	-8.006	-4.113	-15.467	1.00	0.00
ATOM 1074	2HH2	ARG A	70	-8.487	-2.537	-16.002	1.00	0.00
ATOM 1075	N	SER A	71	-10.438	-7.827	-11.056	1.00	0.00
ATOM 1076	CA	SER A	71	-10.857	-9.223	-11.107	1.00	0.00
ATOM 1077	C	SER A	71	-9.751	-10.105	-11.679	1.00	0.00
ATOM 1078	O	SER A	71	-9.008	-9.688	-12.567	1.00	0.00
ATOM 1079	CB	SER A	71	-12.126	-9.365	-11.950	1.00	0.00
ATOM 1080	OG	SER A	71	-12.512	-10.723	-12.068	1.00	0.00



ATOM 1081	H	SER A	71	-10.576	-7.258	-11.842	1.00	0.00
ATOM 1082	HA	SER A	71	-11.069	-9.543	-10.098	1.00	0.00
ATOM 1083	1HB	SER A	71	-12.928	-8.815	-11.483	1.00	0.00
ATOM 1084	2HB	SER A	71	-11.944	-8.968	-12.938	1.00	0.00
ATOM 1085	HG	SER A	71	-13.257	-10.794	-12.670	1.00	0.00
ATOM 1086	N	VAL A	72	-9.651	-11.326	-11.165	1.00	0.00
ATOM 1087	CA	VAL A	72	-8.638	-12.269	-11.624	1.00	0.00
ATOM 1088	C	VAL A	72	-9.263	-13.613	-11.983	1.00	0.00
ATOM 1089	O	VAL A	72	-9.235	-14.554	-11.190	1.00	0.00
ATOM 1090	CB	VAL A	72	-7.550	-12.489	-10.558	1.00	0.00
ATOM 1091	CG1	VAL A	72	-6.619	-11.289	-10.487	1.00	0.00
ATOM 1092	CG2	VAL A	72	-8.179	-12.766	-9.201	1.00	0.00
ATOM 1093	H	VAL A	72	-10.274	-11.601	-10.460	1.00	0.00
ATOM 1094	HA	VAL A	72	-8.171	-11.854	-12.506	1.00	0.00
ATOM 1095	HB	VAL A	72	-6.965	-13.352	-10.842	1.00	0.00
ATOM 1096	1HG1	VAL A	72	-5.900	-11.342	-11.291	1.00	0.00
ATOM 1097	2HG1	VAL A	72	-6.101	-11.290	-9.540	1.00	0.00
ATOM 1098	3HG1	VAL A	72	-7.196	-10.380	-10.579	1.00	0.00
ATOM 1099	1HG2	VAL A	72	-9.167	-13.179	-9.341	1.00	0.00
ATOM 1100	2HG2	VAL A	72	-8.249	-11.845	-8.642	1.00	0.00
ATOM 1101	3HG2	VAL A	72	-7.569	-13.472	-8.659	1.00	0.00
ATOM 1102	N	SER A	73	-9.827	-13.695	-13.184	1.00	0.00
ATOM 1103	CA	SER A	73	-10.461	-14.924	-13.650	1.00	0.00
ATOM 1104	C	SER A	73	-9.437	-16.042	-13.824	1.00	0.00
ATOM 1105	O	SER A	73	-9.790	-17.221	-13.836	1.00	0.00
ATOM 1106	CB	SER A	73	-11.189	-14.674	-14.972	1.00	0.00
ATOM 1107	OG	SER A	73	-12.102	-13.597	-14.857	1.00	0.00

ATOM 1108	H	SER A	73	-9.816	-12.910	-13.771	1.00	0.00
ATOM 1109	HA	SER A	73	-11.181	-15.225	-12.906	1.00	0.00
ATOM 1110	1HB	SER A	73	-10.466	-14.437	-15.740	1.00	0.00
ATOM 1111	2HB	SER A	73	-11.734	-15.563	-15.253	1.00	0.00
ATOM 1112	N	ASN A	74	-8.166	-15.669	-13.962	1.00	0.00
ATOM 1113	CA	ASN A	74	-7.095	-16.644	-14.137	1.00	0.00
ATOM 1114	C	ASN A	74	-7.118	-17.692	-13.027	1.00	0.00
ATOM 1115	O	ASN A	74	-7.197	-18.891	-13.294	1.00	0.00
ATOM 1116	CB	ASN A	74	-5.737	-15.941	-14.161	1.00	0.00
ATOM 1117	CG	ASN A	74	-4.777	-16.569	-15.151	1.00	0.00
ATOM 1118	OD1	ASN A	74	-4.800	-16.255	-16.341	1.00	0.00
ATOM 1119	ND2	ASN A	74	-3.926	-17.464	-14.663	1.00	0.00
ATOM 1120	H	ASN A	74	-7.945	-14.714	-13.947	1.00	0.00
ATOM 1121	HA	ASN A	74	-7.251	-17.139	-15.084	1.00	0.00
ATOM 1122	1HB	ASN A	74	-5.880	-14.906	-14.435	1.00	0.00
ATOM 1123	2HB	ASN A	74	-5.296	-15.991	-13.177	1.00	0.00
ATOM 1124	1HD2	ASN A	74	-3.965	-17.666	-13.705	1.00	0.00
ATOM 1125	2HD2	ASN A	74	-3.294	-17.887	-15.282	1.00	0.00
ATOM 1126	N	ASN A	75	-7.046	-17.231	-11.783	1.00	0.00
ATOM 1127	CA	ASN A	75	-7.056	-18.130	-10.633	1.00	0.00
ATOM 1128	C	ASN A	75	-8.360	-18.005	-9.849	1.00	0.00
ATOM 1129	O	ASN A	75	-8.767	-18.937	-9.155	1.00	0.00
ATOM 1130	CB	ASN A	75	-5.867	-17.832	-9.717	1.00	0.00
ATOM 1131	CG	ASN A	75	-5.428	-19.048	-8.927	1.00	0.00
ATOM 1132	OD1	ASN A	75	-5.420	-20.168	-9.440	1.00	0.00
ATOM 1133	ND2	ASN A	75	-5.059	-18.835	-7.668	1.00	0.00
ATOM 1134	H	ASN A	75	-6.983	-16.265	-11.633	1.00	0.00

ATOM 1135	HA	ASN A	75	-6.969	-19.141	-11.003	1.00	0.00
ATOM 1136	1HB	ASN A	75	-5.035	-17.495	-10.317	1.00	0.00
ATOM 1137	2HB	ASN A	75	-6.143	-17.053	-9.022	1.00	0.00
ATOM 1138	1HD2	ASN A	75	-5.090	-17.917	-7.326	1.00	0.00
ATOM 1139	2HD2	ASN A	75	-4.770	-19.604	-7.134	1.00	0.00
ATOM 1140	N	ASN A	76	-9.008	-16.850	-9.961	1.00	0.00
ATOM 1141	CA	ASN A	76	-10.265	-16.607	-9.258	1.00	0.00
ATOM 1142	C	ASN A	76	-10.074	-16.695	-7.746	1.00	0.00
ATOM 1143	O	ASN A	76	-11.035	-16.890	-7.002	1.00	0.00
ATOM 1144	CB	ASN A	76	-11.328	-17.610	-9.710	1.00	0.00
ATOM 1145	CG	ASN A	76	-11.906	-17.268	-11.069	1.00	0.00
ATOM 1146	OD1	ASN A	76	-11.807	-18.052	-12.014	1.00	0.00
ATOM 1147	ND2	ASN A	76	-12.514	-16.092	-11.175	1.00	0.00
ATOM 1148	H	ASN A	76	-8.634	-16.144	-10.527	1.00	0.00
ATOM 1149	HA	ASN A	76	-10.595	-15.610	-9.509	1.00	0.00
ATOM 1150	1HB	ASN A	76	-10.886	-18.594	-9.766	1.00	0.00
ATOM 1151	2HB	ASN A	76	-12.133	-17.621	-8.989	1.00	0.00
ATOM 1152	1HD2	ASN A	76	-12.555	-15.519	-10.381	1.00	0.00
ATOM 1153	2HD2	ASN A	76	-12.896	-15.845	-12.042	1.00	0.00
ATOM 1154	N	ASN A	77	-8.830	-16.550	-7.297	1.00	0.00
ATOM 1155	CA	ASN A	77	-8.517	-16.613	-5.874	1.00	0.00
ATOM 1156	C	ASN A	77	-7.842	-15.326	-5.408	1.00	0.00
ATOM 1157	O	ASN A	77	-8.064	-14.869	-4.286	1.00	0.00
ATOM 1158	CB	ASN A	77	-7.613	-17.812	-5.582	1.00	0.00
ATOM 1159	CG	ASN A	77	-7.482	-18.091	-4.097	1.00	0.00
ATOM 1160	OD1	ASN A	77	-6.403	-17.961	-3.522	1.00	0.00
ATOM 1161	ND2	ASN A	77	-8.587	-18.477	-3.469	1.00	0.00

ATOM	1162	H	ASN	A	77	-8.106	-16.397	-7.938	1.00	0.00
ATOM	1163	HA	ASN	A	77	-9.445	-16.733	-5.335	1.00	0.00
ATOM	1164	1HB	ASN	A	77	-8.025	-18.690	-6.058	1.00	0.00
ATOM	1165	2HB	ASN	A	77	-6.629	-17.618	-5.982	1.00	0.00
ATOM	1166	1HD2	ASN	A	77	-9.413	-18.560	-3.991	1.00	0.00
ATOM	1167	2HD2	ASN	A	77	-8.531	-18.664	-2.508	1.00	0.00
ATOM	1168	N	HIS	A	78	-7.019	-14.745	-6.274	1.00	0.00
ATOM	1169	CA	HIS	A	78	-6.315	-13.510	-5.947	1.00	0.00
ATOM	1170	C	HIS	A	78	-7.230	-12.303	-6.123	1.00	0.00
ATOM	1171	O	HIS	A	78	-8.400	-12.445	-6.480	1.00	0.00
ATOM	1172	CB	HIS	A	78	-5.074	-13.357	-6.827	1.00	0.00
ATOM	1173	CG	HIS	A	78	-4.233	-14.594	-6.900	1.00	0.00
ATOM	1174	ND1	HIS	A	78	-3.418	-14.889	-7.972	1.00	0.00
ATOM	1175	CD2	HIS	A	78	-4.083	-15.615	-6.022	1.00	0.00
ATOM	1176	CE1	HIS	A	78	-2.804	-16.038	-7.752	1.00	0.00
ATOM	1177	NE2	HIS	A	78	-3.189	-16.499	-6.578	1.00	0.00
ATOM	1178	H	HIS	A	78	-6.881	-15.153	-7.152	1.00	0.00
ATOM	1179	HA	HIS	A	78	-6.007	-13.567	-4.913	1.00	0.00
ATOM	1180	1HB	HIS	A	78	-5.382	-13.107	-7.832	1.00	0.00
ATOM	1181	2HB	HIS	A	78	-4.460	-12.559	-6.436	1.00	0.00
ATOM	1182	HD1	HIS	A	78	-3.307	-14.339	-8.775	1.00	0.00
ATOM	1183	HD2	HIS	A	78	-4.574	-15.716	-5.065	1.00	0.00
ATOM	1184	HE1	HIS	A	78	-2.104	-16.518	-8.421	1.00	0.00
ATOM	1185	HE2	HIS	A	78	-2.950	-17.374	-6.207	1.00	0.00
ATOM	1186	N	THR	A	79	-6.690	-11.116	-5.871	1.00	0.00
ATOM	1187	CA	THR	A	79	-7.459	-9.883	-6.003	1.00	0.00
ATOM	1188	C	THR	A	79	-6.546	-8.707	-6.330	1.00	0.00

ATOM	1189	O	THR	A	79	-5.723	-8.300	-5.509	1.00	0.00
ATOM	1190	CB	THR	A	79	-8.236	-9.601	-4.716	1.00	0.00
ATOM	1191	OG1	THR	A	79	-9.112	-10.673	-4.414	1.00	0.00
ATOM	1192	CG2	THR	A	79	-9.066	-8.336	-4.780	1.00	0.00
ATOM	1193	H	THR	A	79	-5.753	-11.066	-5.591	1.00	0.00
ATOM	1194	HA	THR	A	79	-8.160	-10.015	-6.814	1.00	0.00
ATOM	1195	HB	THR	A	79	-7.535	-9.496	-3.900	1.00	0.00
ATOM	1196	HG1	THR	A	79	-8.598	-11.457	-4.210	1.00	0.00
ATOM	1197	1HG2	THR	A	79	-8.512	-7.520	-4.342	1.00	0.00
ATOM	1198	2HG2	THR	A	79	-9.986	-8.481	-4.234	1.00	0.00
ATOM	1199	3HG2	THR	A	79	-9.290	-8.105	-5.811	1.00	0.00
ATOM	1200	N	GLY	A	80	-6.695	-8.165	-7.535	1.00	0.00
ATOM	1201	CA	GLY	A	80	-5.876	-7.043	-7.948	1.00	0.00
ATOM	1202	C	GLY	A	80	-6.172	-5.786	-7.155	1.00	0.00
ATOM	1203	O	GLY	A	80	-7.285	-5.263	-7.199	1.00	0.00
ATOM	1204	H	GLY	A	80	-7.367	-8.532	-8.147	1.00	0.00
ATOM	1205	1HA	GLY	A	80	-4.836	-7.302	-7.817	1.00	0.00
ATOM	1206	2HA	GLY	A	80	-6.058	-6.844	-8.995	1.00	0.00
ATOM	1207	N	VAL	A	81	-5.173	-5.300	-6.425	1.00	0.00
ATOM	1208	CA	VAL	A	81	-5.332	-4.097	-5.618	1.00	0.00
ATOM	1209	C	VAL	A	81	-5.197	-2.842	-6.473	1.00	0.00
ATOM	1210	O	VAL	A	81	-4.303	-2.744	-7.314	1.00	0.00
ATOM	1211	CB	VAL	A	81	-4.297	-4.047	-4.476	1.00	0.00
ATOM	1212	CG1	VAL	A	81	-4.496	-2.804	-3.619	1.00	0.00
ATOM	1213	CG2	VAL	A	81	-4.381	-5.306	-3.627	1.00	0.00
ATOM	1214	H	VAL	A	81	-4.308	-5.762	-6.430	1.00	0.00
ATOM	1215	HA	VAL	A	81	-6.320	-4.118	-5.180	1.00	0.00

ATOM 1216	HB	VAL A	81	-3.310	-4.002	-4.914	1.00	0.00
ATOM 1217	1HG1	VAL A	81	-4.091	-2.978	-2.633	1.00	0.00
ATOM 1218	2HG1	VAL A	81	-5.550	-2.585	-3.542	1.00	0.00
ATOM 1219	3HG1	VAL A	81	-3.987	-1.967	-4.074	1.00	0.00
ATOM 1220	1HG2	VAL A	81	-4.317	-6.176	-4.265	1.00	0.00
ATOM 1221	2HG2	VAL A	81	-5.321	-5.320	-3.095	1.00	0.00
ATOM 1222	3HG2	VAL A	81	-3.566	-5.319	-2.918	1.00	0.00
ATOM 1223	N	ASP A	82	-6.088	-1.883	-6.249	1.00	0.00
ATOM 1224	CA	ASP A	82	-6.070	-0.630	-6.994	1.00	0.00
ATOM 1225	C	ASP A	82	-6.087	0.560	-6.041	1.00	0.00
ATOM 1226	O	ASP A	82	-7.105	1.235	-5.891	1.00	0.00
ATOM 1227	CB	ASP A	82	-7.267	-0.559	-7.945	1.00	0.00
ATOM 1228	CG	ASP A	82	-6.941	0.177	-9.230	1.00	0.00
ATOM 1229	OD1	ASP A	82	-6.854	1.422	-9.196	1.00	0.00
ATOM 1230	OD2	ASP A	82	-6.774	-0.493	-10.271	1.00	0.00
ATOM 1231	H	ASP A	82	-6.775	-2.021	-5.564	1.00	0.00
ATOM 1232	HA	ASP A	82	-5.158	-0.601	-7.572	1.00	0.00
ATOM 1233	1HB	ASP A	82	-7.579	-1.562	-8.196	1.00	0.00
ATOM 1234	2HB	ASP A	82	-8.080	-0.046	-7.453	1.00	0.00
ATOM 1235	N	SER A	83	-4.951	0.807	-5.396	1.00	0.00
ATOM 1236	CA	SER A	83	-4.832	1.910	-4.452	1.00	0.00
ATOM 1237	C	SER A	83	-4.192	3.127	-5.112	1.00	0.00
ATOM 1238	O	SER A	83	-3.787	3.074	-6.274	1.00	0.00
ATOM 1239	CB	SER A	83	-4.009	1.478	-3.237	1.00	0.00
ATOM 1240	OG	SER A	83	-3.055	0.492	-3.592	1.00	0.00
ATOM 1241	H	SER A	83	-4.176	0.231	-5.557	1.00	0.00
ATOM 1242	HA	SER A	83	-5.827	2.175	-4.125	1.00	0.00

ATOM	1243	1HB	SER	A	83	-3.488	2.333	-2.834	1.00	0.00
ATOM	1244	2HB	SER	A	83	-4.668	1.071	-2.485	1.00	0.00
ATOM	1245	HG	SER	A	83	-3.286	-0.341	-3.175	1.00	0.00
ATOM	1246	N	LEU	A	84	-4.106	4.222	-4.365	1.00	0.00
ATOM	1247	CA	LEU	A	84	-3.518	5.454	-4.879	1.00	0.00
ATOM	1248	C	LEU	A	84	-2.538	6.052	-3.874	1.00	0.00
ATOM	1249	O	LEU	A	84	-2.943	6.603	-2.850	1.00	0.00
ATOM	1250	CB	LEU	A	84	-4.617	6.469	-5.201	1.00	0.00
ATOM	1251	CG	LEU	A	84	-4.226	7.553	-6.207	1.00	0.00
ATOM	1252	CD1	LEU	A	84	-3.201	8.502	-5.603	1.00	0.00
ATOM	1253	CD2	LEU	A	84	-3.690	6.925	-7.485	1.00	0.00
ATOM	1254	H	LEU	A	84	-4.449	4.203	-3.447	1.00	0.00
ATOM	1255	HA	LEU	A	84	-2.984	5.213	-5.786	1.00	0.00
ATOM	1256	1HB	LEU	A	84	-5.468	5.932	-5.594	1.00	0.00
ATOM	1257	2HB	LEU	A	84	-4.912	6.952	-4.283	1.00	0.00
ATOM	1258	HG	LEU	A	84	-5.105	8.130	-6.462	1.00	0.00
ATOM	1259	1HD1	LEU	A	84	-2.228	8.297	-6.025	1.00	0.00
ATOM	1260	2HD1	LEU	A	84	-3.167	8.362	-4.533	1.00	0.00
ATOM	1261	3HD1	LEU	A	84	-3.482	9.520	-5.824	1.00	0.00
ATOM	1262	1HD2	LEU	A	84	-2.610	6.924	-7.459	1.00	0.00
ATOM	1263	2HD2	LEU	A	84	-4.029	7.495	-8.337	1.00	0.00
ATOM	1264	3HD2	LEU	A	84	-4.049	5.909	-7.566	1.00	0.00
ATOM	1265	N	CYS	A	85	-1.246	5.944	-4.174	1.00	0.00
ATOM	1266	CA	CYS	A	85	-0.212	6.480	-3.298	1.00	0.00
ATOM	1267	C	CYS	A	85	-0.301	8.002	-3.231	1.00	0.00
ATOM	1268	O	CYS	A	85	0.468	8.708	-3.884	1.00	0.00
ATOM	1269	CB	CYS	A	85	1.177	6.059	-3.788	1.00	0.00

ATOM	1270	SG	CYS	A	85	1.581	4.329	-3.462	1.00	0.00
ATOM	1271	H	CYS	A	85	-0.984	5.497	-5.006	1.00	0.00
ATOM	1272	HA	CYS	A	85	-0.373	6.076	-2.310	1.00	0.00
ATOM	1273	1HB	CYS	A	85	1.237	6.215	-4.855	1.00	0.00
ATOM	1274	2HB	CYS	A	85	1.923	6.668	-3.299	1.00	0.00
ATOM	1275	HG	CYS	A	85	1.033	4.028	-2.732	1.00	0.00
ATOM	1276	N	ASN	A	86	-1.248	8.501	-2.443	1.00	0.00
ATOM	1277	CA	ASN	A	86	-1.443	9.939	-2.298	1.00	0.00
ATOM	1278	C	ASN	A	86	-0.360	10.553	-1.417	1.00	0.00
ATOM	1279	O	ASN	A	86	0.032	9.976	-0.403	1.00	0.00
ATOM	1280	CB	ASN	A	86	-2.823	10.229	-1.703	1.00	0.00
ATOM	1281	CG	ASN	A	86	-3.899	10.342	-2.765	1.00	0.00
ATOM	1282	OD1	ASN	A	86	-4.055	11.386	-3.400	1.00	0.00
ATOM	1283	ND2	ASN	A	86	-4.650	9.264	-2.964	1.00	0.00
ATOM	1284	H	ASN	A	86	-1.834	7.887	-1.952	1.00	0.00
ATOM	1285	HA	ASN	A	86	-1.385	10.383	-3.280	1.00	0.00
ATOM	1286	1HB	ASN	A	86	-3.094	9.431	-1.028	1.00	0.00
ATOM	1287	2HB	ASN	A	86	-2.784	11.159	-1.156	1.00	0.00
ATOM	1288	1HD2	ASN	A	86	-4.470	8.469	-2.423	1.00	0.00
ATOM	1289	2HD2	ASN	A	86	-5.353	9.311	-3.645	1.00	0.00
ATOM	1290	N	PHE	A	87	0.119	11.728	-1.812	1.00	0.00
ATOM	1291	CA	PHE	A	87	1.156	12.424	-1.058	1.00	0.00
ATOM	1292	C	PHE	A	87	0.670	13.798	-0.606	1.00	0.00
ATOM	1293	O	PHE	A	87	-0.420	14.233	-0.976	1.00	0.00
ATOM	1294	CB	PHE	A	87	2.421	12.569	-1.906	1.00	0.00
ATOM	1295	CG	PHE	A	87	3.358	11.401	-1.788	1.00	0.00
ATOM	1296	CD1	PHE	A	87	2.969	10.139	-2.209	1.00	0.00



ATOM	1297	CD2	PHE	A	87	4.627	11.565	-1.257	1.00	0.00
ATOM	1298	CE1	PHE	A	87	3.828	9.062	-2.102	1.00	0.00
ATOM	1299	CE2	PHE	A	87	5.490	10.492	-1.147	1.00	0.00
ATOM	1300	CZ	PHE	A	87	5.092	9.239	-1.570	1.00	0.00
ATOM	1301	H	PHE	A	87	-0.234	12.139	-2.629	1.00	0.00
ATOM	1302	HA	PHE	A	87	1.385	11.832	-0.185	1.00	0.00
ATOM	1303	1HB	PHE	A	87	2.141	12.666	-2.945	1.00	0.00
ATOM	1304	2HB	PHE	A	87	2.954	13.457	-1.597	1.00	0.00
ATOM	1305	HD1	PHE	A	87	1.982	10.000	-2.625	1.00	0.00
ATOM	1306	HD2	PHE	A	87	4.940	12.544	-0.926	1.00	0.00
ATOM	1307	HE1	PHE	A	87	3.513	8.084	-2.433	1.00	0.00
ATOM	1308	HE2	PHE	A	87	6.477	10.633	-0.730	1.00	0.00
ATOM	1309	HZ	PHE	A	87	5.765	8.399	-1.485	1.00	0.00
ATOM	1310	N	SER	A	88	1.486	14.475	0.194	1.00	0.00
ATOM	1311	CA	SER	A	88	1.139	15.799	0.696	1.00	0.00
ATOM	1312	C	SER	A	88	1.747	16.891	-0.181	1.00	0.00
ATOM	1313	O	SER	A	88	2.635	16.623	-0.991	1.00	0.00
ATOM	1314	CB	SER	A	88	1.616	15.962	2.141	1.00	0.00
ATOM	1315	OG	SER	A	88	0.569	15.697	3.058	1.00	0.00
ATOM	1316	H	SER	A	88	2.342	14.075	0.455	1.00	0.00
ATOM	1317	HA	SER	A	88	0.063	15.891	0.670	1.00	0.00
ATOM	1318	1HB	SER	A	88	2.426	15.273	2.329	1.00	0.00
ATOM	1319	2HB	SER	A	88	1.964	16.974	2.291	1.00	0.00
ATOM	1320	HG	SER	A	88	0.745	16.153	3.885	1.00	0.00
ATOM	1321	N	PRO	A	89	1.278	18.141	-0.030	1.00	0.00
ATOM	1322	CA	PRO	A	89	1.784	19.274	-0.812	1.00	0.00
ATOM	1323	C	PRO	A	89	3.254	19.561	-0.529	1.00	0.00

ATOM 1324	O	PRO A	89	3.972	20.081	-1.383	1.00	0.00
ATOM 1325	CB	PRO A	89	0.912	20.450	-0.358	1.00	0.00
ATOM 1326	CG	PRO A	89	0.378	20.042	0.973	1.00	0.00
ATOM 1327	CD	PRO A	89	0.223	18.550	0.914	1.00	0.00
ATOM 1328	HA	PRO A	89	1.650	19.111	-1.873	1.00	0.00
ATOM 1329	1HB	PRO A	89	1.517	21.341	-0.284	1.00	0.00
ATOM 1330	2HB	PRO A	89	0.115	20.607	-1.071	1.00	0.00
ATOM 1331	1HG	PRO A	89	1.078	20.317	1.748	1.00	0.00
ATOM 1332	2HG	PRO A	89	-0.579	20.512	1.144	1.00	0.00
ATOM 1333	1HD	PRO A	89	0.385	18.114	1.888	1.00	0.00
ATOM 1334	2HD	PRO A	89	-0.755	18.286	0.537	1.00	0.00
ATOM 1335	N	LEU A	90	3.696	19.219	0.677	1.00	0.00
ATOM 1336	CA	LEU A	90	5.082	19.439	1.074	1.00	0.00
ATOM 1337	C	LEU A	90	6.026	18.554	0.266	1.00	0.00
ATOM 1338	O	LEU A	90	7.186	18.906	0.047	1.00	0.00
ATOM 1339	CB	LEU A	90	5.256	19.160	2.567	1.00	0.00
ATOM 1340	CG	LEU A	90	4.836	20.304	3.493	1.00	0.00
ATOM 1341	CD1	LEU A	90	3.341	20.250	3.762	1.00	0.00
ATOM 1342	CD2	LEU A	90	5.617	20.247	4.797	1.00	0.00
ATOM 1343	H	LEU A	90	3.076	18.808	1.315	1.00	0.00
ATOM 1344	HA	LEU A	90	5.321	20.473	0.879	1.00	0.00
ATOM 1345	1HB	LEU A	90	4.672	18.288	2.819	1.00	0.00
ATOM 1346	2HB	LEU A	90	6.297	18.941	2.753	1.00	0.00
ATOM 1347	HG	LEU A	90	5.054	21.246	3.011	1.00	0.00
ATOM 1348	1HD1	LEU A	90	3.018	21.186	4.194	1.00	0.00
ATOM 1349	2HD1	LEU A	90	3.128	19.443	4.448	1.00	0.00
ATOM 1350	3HD1	LEU A	90	2.814	20.081	2.834	1.00	0.00

ATOM	1351	1HD2	LEU	A	90	6.542	19.711	4.640	1.00	0.00
ATOM	1352	2HD2	LEU	A	90	5.029	19.736	5.546	1.00	0.00
ATOM	1353	3HD2	LEU	A	90	5.834	21.250	5.131	1.00	0.00
ATOM	1354	N	ALA	A	91	5.524	17.405	-0.175	1.00	0.00
ATOM	1355	CA	ALA	A	91	6.324	16.470	-0.958	1.00	0.00
ATOM	1356	C	ALA	A	91	6.876	17.135	-2.215	1.00	0.00
ATOM	1357	O	ALA	A	91	6.325	18.124	-2.700	1.00	0.00
ATOM	1358	CB	ALA	A	91	5.495	15.249	-1.327	1.00	0.00
ATOM	1359	H	ALA	A	91	4.593	17.179	0.032	1.00	0.00
ATOM	1360	HA	ALA	A	91	7.150	16.142	-0.344	1.00	0.00
ATOM	1361	1HB	ALA	A	91	4.805	15.026	-0.527	1.00	0.00
ATOM	1362	2HB	ALA	A	91	6.149	14.403	-1.484	1.00	0.00
ATOM	1363	3HB	ALA	A	91	4.942	15.449	-2.233	1.00	0.00
ATOM	1364	N	ARG	A	92	7.968	16.586	-2.737	1.00	0.00
ATOM	1365	CA	ARG	A	92	8.595	17.128	-3.936	1.00	0.00
ATOM	1366	C	ARG	A	92	9.603	16.141	-4.517	1.00	0.00
ATOM	1367	O	ARG	A	92	10.478	15.643	-3.809	1.00	0.00
ATOM	1368	CB	ARG	A	92	9.286	18.457	-3.620	1.00	0.00
ATOM	1369	CG	ARG	A	92	9.013	19.543	-4.648	1.00	0.00
ATOM	1370	CD	ARG	A	92	8.157	20.659	-4.069	1.00	0.00
ATOM	1371	NE	ARG	A	92	7.243	21.220	-5.061	1.00	0.00
ATOM	1372	CZ	ARG	A	92	6.189	20.571	-5.549	1.00	0.00
ATOM	1373	NH1	ARG	A	92	5.911	19.339	-5.138	1.00	0.00
ATOM	1374	NH2	ARG	A	92	5.409	21.154	-6.449	1.00	0.00
ATOM	1375	H	ARG	A	92	8.362	15.800	-2.305	1.00	0.00
ATOM	1376	HA	ARG	A	92	7.818	17.301	-4.666	1.00	0.00
ATOM	1377	1HB	ARG	A	92	8.943	18.806	-2.657	1.00	0.00

ATOM 1378	2HB	ARG	A	92	10.352	18.294	-3.574	1.00	0.00
ATOM 1379	1HG	ARG	A	92	9.953	19.959	-4.977	1.00	0.00
ATOM 1380	2HG	ARG	A	92	8.497	19.106	-5.490	1.00	0.00
ATOM 1381	1HD	ARG	A	92	7.581	20.263	-3.246	1.00	0.00
ATOM 1382	2HD	ARG	A	92	8.807	21.442	-3.707	1.00	0.00
ATOM 1383	HE	ARG	A	92	7.425	22.128	-5.382	1.00	0.00
ATOM 1384	1HH1	ARG	A	92	6.496	18.893	-4.461	1.00	0.00
ATOM 1385	2HH1	ARG	A	92	5.118	18.857	-5.508	1.00	0.00
ATOM 1386	1HH2	ARG	A	92	5.614	22.082	-6.761	1.00	0.00
ATOM 1387	2HH2	ARG	A	92	4.617	20.667	-6.814	1.00	0.00
ATOM 1388	N	ARG	A	93	9.474	15.864	-5.810	1.00	0.00
ATOM 1389	CA	ARG	A	93	10.373	14.938	-6.488	1.00	0.00
ATOM 1390	C	ARG	A	93	10.278	13.540	-5.881	1.00	0.00
ATOM 1391	O	ARG	A	93	11.194	13.085	-5.196	1.00	0.00
ATOM 1392	CB	ARG	A	93	11.814	15.448	-6.413	1.00	0.00
ATOM 1393	CG	ARG	A	93	12.259	16.184	-7.665	1.00	0.00
ATOM 1394	CD	ARG	A	93	12.077	17.686	-7.522	1.00	0.00
ATOM 1395	NE	ARG	A	93	11.602	18.300	-8.760	1.00	0.00
ATOM 1396	CZ	ARG	A	93	11.014	19.493	-8.819	1.00	0.00
ATOM 1397	NH1	ARG	A	93	10.829	20.206	-7.715	1.00	0.00
ATOM 1398	NH2	ARG	A	93	10.609	19.974	-9.986	1.00	0.00
ATOM 1399	H	ARG	A	93	8.756	16.293	-6.322	1.00	0.00
ATOM 1400	HA	ARG	A	93	10.075	14.886	-7.524	1.00	0.00
ATOM 1401	1HB	ARG	A	93	11.902	16.122	-5.574	1.00	0.00
ATOM 1402	2HB	ARG	A	93	12.475	14.607	-6.261	1.00	0.00
ATOM 1403	1HG	ARG	A	93	13.301	15.973	-7.843	1.00	0.00
ATOM 1404	2HG	ARG	A	93	11.671	15.837	-8.503	1.00	0.00

ATOM 1405	1HD	ARG	A	93	11.358	17.876	-6.739	1.00	0.00
ATOM 1406	2HD	ARG	A	93	13.026	18.127	-7.253	1.00	0.00
ATOM 1407	HE	ARG	A	93	11.727	17.796	-9.591	1.00	0.00
ATOM 1408	1HH1	ARG	A	93	11.132	19.848	-6.831	1.00	0.00
ATOM 1409	2HH1	ARG	A	93	10.387	21.101	-7.766	1.00	0.00
ATOM 1410	1HH2	ARG	A	93	10.747	19.443	-10.822	1.00	0.00
ATOM 1411	2HH2	ARG	A	93	10.167	20.870	-10.031	1.00	0.00
ATOM 1412	N	VAL	A	94	9.164	12.864	-6.141	1.00	0.00
ATOM 1413	CA	VAL	A	94	8.948	11.518	-5.624	1.00	0.00
ATOM 1414	C	VAL	A	94	8.653	10.541	-6.756	1.00	0.00
ATOM 1415	O	VAL	A	94	7.545	10.513	-7.292	1.00	0.00
ATOM 1416	CB	VAL	A	94	7.785	11.480	-4.614	1.00	0.00
ATOM 1417	CG1	VAL	A	94	7.678	10.105	-3.971	1.00	0.00
ATOM 1418	CG2	VAL	A	94	7.958	12.558	-3.555	1.00	0.00
ATOM 1419	H	VAL	A	94	8.471	13.280	-6.695	1.00	0.00
ATOM 1420	HA	VAL	A	94	9.850	11.206	-5.116	1.00	0.00
ATOM 1421	HB	VAL	A	94	6.865	11.674	-5.148	1.00	0.00
ATOM 1422	1HG1	VAL	A	94	6.966	9.506	-4.519	1.00	0.00
ATOM 1423	2HG1	VAL	A	94	7.349	10.211	-2.948	1.00	0.00
ATOM 1424	3HG1	VAL	A	94	8.645	9.623	-3.989	1.00	0.00
ATOM 1425	1HG2	VAL	A	94	7.003	13.024	-3.357	1.00	0.00
ATOM 1426	2HG2	VAL	A	94	8.655	13.303	-3.908	1.00	0.00
ATOM 1427	3HG2	VAL	A	94	8.335	12.112	-2.645	1.00	0.00
ATOM 1428	N	ASP	A	95	9.651	9.740	-7.117	1.00	0.00
ATOM 1429	CA	ASP	A	95	9.495	8.762	-8.187	1.00	0.00
ATOM 1430	C	ASP	A	95	8.557	7.636	-7.763	1.00	0.00
ATOM 1431	O	ASP	A	95	8.450	7.318	-6.578	1.00	0.00

ATOM	1432	CB	ASP	A	95	10.856	8.187	-8.582	1.00	0.00
ATOM	1433	CG	ASP	A	95	11.814	9.253	-9.073	1.00	0.00
ATOM	1434	OD1	ASP	A	95	11.850	9.501	-10.297	1.00	0.00
ATOM	1435	OD2	ASP	A	95	12.528	9.842	-8.234	1.00	0.00
ATOM	1436	H	ASP	A	95	10.511	9.810	-6.653	1.00	0.00
ATOM	1437	HA	ASP	A	95	9.067	9.268	-9.039	1.00	0.00
ATOM	1438	1HB	ASP	A	95	11.297	7.700	-7.724	1.00	0.00
ATOM	1439	2HB	ASP	A	95	10.718	7.461	-9.371	1.00	0.00
ATOM	1440	N	ARG	A	96	7.879	7.038	-8.736	1.00	0.00
ATOM	1441	CA	ARG	A	96	6.952	5.947	-8.460	1.00	0.00
ATOM	1442	C	ARG	A	96	7.693	4.729	-7.917	1.00	0.00
ATOM	1443	O	ARG	A	96	7.151	3.963	-7.121	1.00	0.00
ATOM	1444	CB	ARG	A	96	6.183	5.569	-9.728	1.00	0.00
ATOM	1445	CG	ARG	A	96	7.063	5.447	-10.963	1.00	0.00
ATOM	1446	CD	ARG	A	96	6.887	6.637	-11.893	1.00	0.00
ATOM	1447	NE	ARG	A	96	5.962	6.346	-12.986	1.00	0.00
ATOM	1448	CZ	ARG	A	96	5.897	7.054	-14.111	1.00	0.00
ATOM	1449	NH1	ARG	A	96	6.702	8.094	-14.298	1.00	0.00
ATOM	1450	NH2	ARG	A	96	5.028	6.720	-15.056	1.00	0.00
ATOM	1451	H	ARG	A	96	8.007	7.336	-9.660	1.00	0.00
ATOM	1452	HA	ARG	A	96	6.251	6.289	-7.714	1.00	0.00
ATOM	1453	1HB	ARG	A	96	5.693	4.619	-9.568	1.00	0.00
ATOM	1454	2HB	ARG	A	96	5.433	6.323	-9.919	1.00	0.00
ATOM	1455	1HG	ARG	A	96	8.095	5.396	-10.652	1.00	0.00
ATOM	1456	2HG	ARG	A	96	6.799	4.545	-11.493	1.00	0.00
ATOM	1457	1HD	ARG	A	96	6.505	7.470	-11.323	1.00	0.00
ATOM	1458	2HD	ARG	A	96	7.849	6.898	-12.308	1.00	0.00

ATOM	1459	HE	ARG	A	96	5.356	5.583	-12.875	1.00	0.00
ATOM	1460	1HH1	ARG	A	96	7.361	8.350	-13.590	1.00	0.00
ATOM	1461	2HH1	ARG	A	96	6.649	8.620	-15.145	1.00	0.00
ATOM	1462	1HH2	ARG	A	96	4.421	5.938	-14.922	1.00	0.00
ATOM	1463	2HH2	ARG	A	96	4.980	7.252	-15.902	1.00	0.00
ATOM	1464	N	VAL	A	97	8.937	4.557	-8.354	1.00	0.00
ATOM	1465	CA	VAL	A	97	9.753	3.433	-7.912	1.00	0.00
ATOM	1466	C	VAL	A	97	10.077	3.536	-6.424	1.00	0.00
ATOM	1467	O	VAL	A	97	10.258	2.523	-5.748	1.00	0.00
ATOM	1468	CB	VAL	A	97	11.070	3.346	-8.708	1.00	0.00
ATOM	1469	CG1	VAL	A	97	11.833	2.081	-8.346	1.00	0.00
ATOM	1470	CG2	VAL	A	97	10.796	3.400	-10.204	1.00	0.00
ATOM	1471	H	VAL	A	97	9.315	5.201	-8.988	1.00	0.00
ATOM	1472	HA	VAL	A	97	9.192	2.525	-8.086	1.00	0.00
ATOM	1473	HB	VAL	A	97	11.681	4.196	-8.445	1.00	0.00
ATOM	1474	1HG1	VAL	A	97	11.144	1.251	-8.283	1.00	0.00
ATOM	1475	2HG1	VAL	A	97	12.321	2.216	-7.392	1.00	0.00
ATOM	1476	3HG1	VAL	A	97	12.574	1.878	-9.104	1.00	0.00
ATOM	1477	1HG2	VAL	A	97	11.534	4.027	-10.682	1.00	0.00
ATOM	1478	2HG2	VAL	A	97	9.811	3.809	-10.376	1.00	0.00
ATOM	1479	3HG2	VAL	A	97	10.848	2.404	-10.617	1.00	0.00
ATOM	1480	N	ALA	A	98	10.149	4.764	-5.919	1.00	0.00
ATOM	1481	CA	ALA	A	98	10.452	4.994	-4.512	1.00	0.00
ATOM	1482	C	ALA	A	98	9.423	4.318	-3.613	1.00	0.00
ATOM	1483	O	ALA	A	98	9.768	3.489	-2.771	1.00	0.00
ATOM	1484	CB	ALA	A	98	10.514	6.485	-4.220	1.00	0.00
ATOM	1485	H	ALA	A	98	9.996	5.532	-6.508	1.00	0.00

ATOM 1486	HA	ALA A	98	11.425	4.570	-4.308	1.00	0.00
ATOM 1487	1HB	ALA A	98	9.908	7.017	-4.937	1.00	0.00
ATOM 1488	2HB	ALA A	98	11.537	6.823	-4.291	1.00	0.00
ATOM 1489	3HB	ALA A	98	10.142	6.672	-3.224	1.00	0.00
ATOM 1490	N	ILE A	99	8.155	4.674	-3.799	1.00	0.00
ATOM 1491	CA	ILE A	99	7.077	4.096	-3.006	1.00	0.00
ATOM 1492	C	ILE A	99	6.998	2.588	-3.215	1.00	0.00
ATOM 1493	O	ILE A	99	6.561	1.851	-2.332	1.00	0.00
ATOM 1494	CB	ILE A	99	5.714	4.730	-3.358	1.00	0.00
ATOM 1495	CG1	ILE A	99	5.795	6.255	-3.260	1.00	0.00
ATOM 1496	CG2	ILE A	99	4.627	4.194	-2.439	1.00	0.00
ATOM 1497	CD1	ILE A	99	4.861	6.970	-4.211	1.00	0.00
ATOM 1498	H	ILE A	99	7.941	5.338	-4.488	1.00	0.00
ATOM 1499	HA	ILE A	99	7.286	4.296	-1.965	1.00	0.00
ATOM 1500	HB	ILE A	99	5.464	4.455	-4.371	1.00	0.00
ATOM 1501	1HG1	ILE A	99	5.541	6.558	-2.256	1.00	0.00
ATOM 1502	2HG1	ILE A	99	6.804	6.571	-3.482	1.00	0.00
ATOM 1503	1HG2	ILE A	99	4.149	3.343	-2.904	1.00	0.00
ATOM 1504	2HG2	ILE A	99	3.892	4.965	-2.263	1.00	0.00
ATOM 1505	3HG2	ILE A	99	5.064	3.892	-1.500	1.00	0.00
ATOM 1506	1HD1	ILE A	99	5.074	6.663	-5.224	1.00	0.00
ATOM 1507	2HD1	ILE A	99	5.004	8.037	-4.120	1.00	0.00
ATOM 1508	3HD1	ILE A	99	3.839	6.722	-3.966	1.00	0.00
ATOM 1509	N	TYR A	100	7.428	2.137	-4.389	1.00	0.00
ATOM 1510	CA	TYR A	100	7.413	0.717	-4.717	1.00	0.00
ATOM 1511	C	TYR A	100	8.487	-0.032	-3.935	1.00	0.00
ATOM 1512	O	TYR A	100	8.215	-1.063	-3.318	1.00	0.00



ATOM 1513	CB	TYR A 100	7.629	0.521	-6.219	1.00	0.00
ATOM 1514	CG	TYR A 100	7.680	-0.930	-6.645	1.00	0.00
ATOM 1515	CD1	TYR A 100	8.859	-1.492	-7.119	1.00	0.00
ATOM 1516	CD2	TYR A 100	6.551	-1.735	-6.574	1.00	0.00
ATOM 1517	CE1	TYR A 100	8.910	-2.817	-7.510	1.00	0.00
ATOM 1518	CE2	TYR A 100	6.595	-3.061	-6.962	1.00	0.00
ATOM 1519	CZ	TYR A 100	7.777	-3.597	-7.429	1.00	0.00
ATOM 1520	OH	TYR A 100	7.824	-4.916	-7.817	1.00	0.00
ATOM 1521	H	TYR A 100	7.768	2.774	-5.050	1.00	0.00
ATOM 1522	HA	TYR A 100	6.444	0.324	-4.447	1.00	0.00
ATOM 1523	1HB	TYR A 100	6.822	0.995	-6.756	1.00	0.00
ATOM 1524	2HB	TYR A 100	8.563	0.984	-6.503	1.00	0.00
ATOM 1525	HD1	TYR A 100	9.746	-0.879	-7.181	1.00	0.00
ATOM 1526	HD2	TYR A 100	5.627	-1.313	-6.208	1.00	0.00
ATOM 1527	HE1	TYR A 100	9.837	-3.236	-7.875	1.00	0.00
ATOM 1528	HE2	TYR A 100	5.707	-3.672	-6.900	1.00	0.00
ATOM 1529	HH	TYR A 100	7.015	-5.143	-8.282	1.00	0.00
ATOM 1530	N	GLU A 101	9.706	0.493	-3.967	1.00	0.00
ATOM 1531	CA	GLU A 101	10.826	-0.124	-3.265	1.00	0.00
ATOM 1532	C	GLU A 101	10.555	-0.208	-1.765	1.00	0.00
ATOM 1533	O	GLU A 101	10.658	-1.277	-1.165	1.00	0.00
ATOM 1534	CB	GLU A 101	12.110	0.667	-3.519	1.00	0.00
ATOM 1535	CG	GLU A 101	12.864	0.220	-4.761	1.00	0.00
ATOM 1536	CD	GLU A 101	14.368	0.315	-4.594	1.00	0.00
ATOM 1537	OE1	GLU A 101	14.977	-0.672	-4.133	1.00	0.00
ATOM 1538	OE2	GLU A 101	14.936	1.377	-4.928	1.00	0.00
ATOM 1539	H	GLU A 101	9.858	1.316	-4.478	1.00	0.00

ATOM	1540	HA	GLU A 101	10.948	-1.124	-3.652	1.00	0.00
ATOM	1541	1HB	GLU A 101	11.859	1.712	-3.632	1.00	0.00
ATOM	1542	2HB	GLU A 101	12.763	0.553	-2.667	1.00	0.00
ATOM	1543	1HG	GLU A 101	12.605	-0.805	-4.974	1.00	0.00
ATOM	1544	2HG	GLU A 101	12.567	0.846	-5.590	1.00	0.00
ATOM	1545	N	GLU A 102	10.209	0.928	-1.167	1.00	0.00
ATOM	1546	CA	GLU A 102	9.926	0.984	0.264	1.00	0.00
ATOM	1547	C	GLU A 102	8.824	0.001	0.645	1.00	0.00
ATOM	1548	O	GLU A 102	8.790	-0.504	1.767	1.00	0.00
ATOM	1549	CB	GLU A 102	9.519	2.403	0.668	1.00	0.00
ATOM	1550	CG	GLU A 102	10.687	3.373	0.744	1.00	0.00
ATOM	1551	CD	GLU A 102	11.664	3.023	1.848	1.00	0.00
ATOM	1552	OE1	GLU A 102	11.210	2.769	2.985	1.00	0.00
ATOM	1553	OE2	GLU A 102	12.884	3.003	1.578	1.00	0.00
ATOM	1554	H	GLU A 102	10.145	1.748	-1.699	1.00	0.00
ATOM	1555	HA	GLU A 102	10.829	0.716	0.790	1.00	0.00
ATOM	1556	1HB	GLU A 102	8.811	2.781	-0.054	1.00	0.00
ATOM	1557	2HB	GLU A 102	9.046	2.366	1.638	1.00	0.00
ATOM	1558	1HG	GLU A 102	11.213	3.356	-0.199	1.00	0.00
ATOM	1559	2HG	GLU A 102	10.303	4.366	0.923	1.00	0.00
ATOM	1560	N	PHE A 103	7.922	-0.266	-0.294	1.00	0.00
ATOM	1561	CA	PHE A 103	6.818	-1.188	-0.054	1.00	0.00
ATOM	1562	C	PHE A 103	7.308	-2.632	-0.011	1.00	0.00
ATOM	1563	O	PHE A 103	6.935	-3.398	0.878	1.00	0.00
ATOM	1564	CB	PHE A 103	5.753	-1.032	-1.141	1.00	0.00
ATOM	1565	CG	PHE A 103	4.551	-1.909	-0.935	1.00	0.00
ATOM	1566	CD1	PHE A 103	4.322	-2.999	-1.760	1.00	0.00

ATOM	1567	CD2	PHE A 103	3.650	-1.645	0.084	1.00	0.00
ATOM	1568	CE1	PHE A 103	3.217	-3.808	-1.571	1.00	0.00
ATOM	1569	CE2	PHE A 103	2.543	-2.449	0.277	1.00	0.00
ATOM	1570	CZ	PHE A 103	2.327	-3.532	-0.552	1.00	0.00
ATOM	1571	H	PHE A 103	8.000	0.168	-1.169	1.00	0.00
ATOM	1572	HA	PHE A 103	6.382	-0.940	0.901	1.00	0.00
ATOM	1573	1HB	PHE A 103	5.416	-0.007	-1.160	1.00	0.00
ATOM	1574	2HB	PHE A 103	6.188	-1.282	-2.098	1.00	0.00
ATOM	1575	HD1	PHE A 103	5.017	-3.216	-2.556	1.00	0.00
ATOM	1576	HD2	PHE A 103	3.819	-0.797	0.733	1.00	0.00
ATOM	1577	HE1	PHE A 103	3.050	-4.654	-2.222	1.00	0.00
ATOM	1578	HE2	PHE A 103	1.849	-2.232	1.075	1.00	0.00
ATOM	1579	HZ	PHE A 103	1.463	-4.163	-0.404	1.00	0.00
ATOM	1580	N	LEU A 104	8.143	-2.998	-0.978	1.00	0.00
ATOM	1581	CA	LEU A 104	8.682	-4.352	-1.055	1.00	0.00
ATOM	1582	C	LEU A 104	9.506	-4.689	0.185	1.00	0.00
ATOM	1583	O	LEU A 104	9.377	-5.773	0.753	1.00	0.00
ATOM	1584	CB	LEU A 104	9.543	-4.510	-2.309	1.00	0.00
ATOM	1585	CG	LEU A 104	8.880	-4.055	-3.610	1.00	0.00
ATOM	1586	CD1	LEU A 104	9.910	-3.447	-4.552	1.00	0.00
ATOM	1587	CD2	LEU A 104	8.167	-5.222	-4.277	1.00	0.00
ATOM	1588	H	LEU A 104	8.401	-2.342	-1.659	1.00	0.00
ATOM	1589	HA	LEU A 104	7.850	-5.037	-1.114	1.00	0.00
ATOM	1590	1HB	LEU A 104	10.450	-3.938	-2.171	1.00	0.00
ATOM	1591	2HB	LEU A 104	9.808	-5.552	-2.410	1.00	0.00
ATOM	1592	HG	LEU A 104	8.145	-3.297	-3.385	1.00	0.00
ATOM	1593	1HD1	LEU A 104	9.527	-2.519	-4.951	1.00	0.00

ATOM	1594	2HD1	LEU	A	104	10.108	-4.133	-5.362	1.00	0.00
ATOM	1595	3HD1	LEU	A	104	10.825	-3.254	-4.011	1.00	0.00
ATOM	1596	1HD2	LEU	A	104	7.270	-4.865	-4.762	1.00	0.00
ATOM	1597	2HD2	LEU	A	104	7.905	-5.958	-3.531	1.00	0.00
ATOM	1598	3HD2	LEU	A	104	8.819	-5.670	-5.012	1.00	0.00
ATOM	1599	N	ARG	A	105	10.358	-3.754	0.595	1.00	0.00
ATOM	1600	CA	ARG	A	105	11.209	-3.954	1.764	1.00	0.00
ATOM	1601	C	ARG	A	105	10.377	-4.250	3.010	1.00	0.00
ATOM	1602	O	ARG	A	105	10.589	-5.257	3.684	1.00	0.00
ATOM	1603	CB	ARG	A	105	12.084	-2.719	1.998	1.00	0.00
ATOM	1604	CG	ARG	A	105	13.557	-2.954	1.709	1.00	0.00
ATOM	1605	CD	ARG	A	105	14.285	-3.497	2.927	1.00	0.00
ATOM	1606	NE	ARG	A	105	14.907	-2.433	3.713	1.00	0.00
ATOM	1607	CZ	ARG	A	105	16.061	-1.852	3.393	1.00	0.00
ATOM	1608	NH1	ARG	A	105	16.723	-2.230	2.307	1.00	0.00
ATOM	1609	NH2	ARG	A	105	16.554	-0.892	4.162	1.00	0.00
ATOM	1610	H	ARG	A	105	10.419	-2.912	0.099	1.00	0.00
ATOM	1611	HA	ARG	A	105	11.848	-4.802	1.565	1.00	0.00
ATOM	1612	1HB	ARG	A	105	11.736	-1.921	1.360	1.00	0.00
ATOM	1613	2HB	ARG	A	105	11.987	-2.411	3.029	1.00	0.00
ATOM	1614	1HG	ARG	A	105	13.645	-3.666	0.901	1.00	0.00
ATOM	1615	2HG	ARG	A	105	14.010	-2.018	1.416	1.00	0.00
ATOM	1616	1HD	ARG	A	105	13.576	-4.023	3.549	1.00	0.00
ATOM	1617	2HD	ARG	A	105	15.051	-4.183	2.597	1.00	0.00
ATOM	1618	HE	ARG	A	105	14.438	-2.135	4.520	1.00	0.00
ATOM	1619	1HH1	ARG	A	105	16.357	-2.954	1.722	1.00	0.00
ATOM	1620	2HH1	ARG	A	105	17.590	-1.790	2.072	1.00	0.00

ATOM 1621	1HH2	ARG	A	105	16.060	-0.604	4.981	1.00	0.00
ATOM 1622	2HH2	ARG	A	105	17.422	-0.455	3.922	1.00	0.00
ATOM 1623	N	MET	A	106	9.435	-3.363	3.310	1.00	0.00
ATOM 1624	CA	MET	A	106	8.576	-3.527	4.478	1.00	0.00
ATOM 1625	C	MET	A	106	7.693	-4.765	4.348	1.00	0.00
ATOM 1626	O	MET	A	106	7.298	-5.364	5.348	1.00	0.00
ATOM 1627	CB	MET	A	106	7.703	-2.287	4.673	1.00	0.00
ATOM 1628	CG	MET	A	106	6.987	-2.255	6.014	1.00	0.00
ATOM 1629	SD	MET	A	106	7.344	-0.761	6.960	1.00	0.00
ATOM 1630	CE	MET	A	106	6.804	0.501	5.810	1.00	0.00
ATOM 1631	H	MET	A	106	9.315	-2.578	2.736	1.00	0.00
ATOM 1632	HA	MET	A	106	9.212	-3.644	5.342	1.00	0.00
ATOM 1633	1HB	MET	A	106	8.325	-1.408	4.597	1.00	0.00
ATOM 1634	2HB	MET	A	106	6.958	-2.258	3.891	1.00	0.00
ATOM 1635	1HG	MET	A	106	5.922	-2.306	5.840	1.00	0.00
ATOM 1636	2HG	MET	A	106	7.296	-3.113	6.592	1.00	0.00
ATOM 1637	1HE	MET	A	106	7.460	1.356	5.879	1.00	0.00
ATOM 1638	2HE	MET	A	106	5.795	0.801	6.054	1.00	0.00
ATOM 1639	3HE	MET	A	106	6.829	0.107	4.805	1.00	0.00
ATOM 1640	N	THR	A	107	7.384	-5.144	3.112	1.00	0.00
ATOM 1641	CA	THR	A	107	6.544	-6.310	2.860	1.00	0.00
ATOM 1642	C	THR	A	107	7.387	-7.560	2.615	1.00	0.00
ATOM 1643	O	THR	A	107	6.907	-8.538	2.041	1.00	0.00
ATOM 1644	CB	THR	A	107	5.631	-6.054	1.660	1.00	0.00
ATOM 1645	OG1	THR	A	107	6.394	-5.825	0.490	1.00	0.00
ATOM 1646	CG2	THR	A	107	4.712	-4.866	1.848	1.00	0.00
ATOM 1647	H	THR	A	107	7.725	-4.627	2.352	1.00	0.00

ATOM 1648	HA	THR A 107	5.932	-6.471	3.735	1.00	0.00
ATOM 1649	HB	THR A 107	5.014	-6.928	1.498	1.00	0.00
ATOM 1650	HG1	THR A 107	6.907	-5.022	0.596	1.00	0.00
ATOM 1651	1HG2	THR A 107	3.688	-5.208	1.893	1.00	0.00
ATOM 1652	2HG2	THR A 107	4.829	-4.186	1.020	1.00	0.00
ATOM 1653	3HG2	THR A 107	4.962	-4.360	2.768	1.00	0.00
ATOM 1654	N	HIS A 108	8.642	-7.526	3.056	1.00	0.00
ATOM 1655	CA	HIS A 108	9.546	-8.659	2.886	1.00	0.00
ATOM 1656	C	HIS A 108	9.593	-9.114	1.428	1.00	0.00
ATOM 1657	O	HIS A 108	9.093	-10.185	1.084	1.00	0.00
ATOM 1658	CB	HIS A 108	9.113	-9.820	3.783	1.00	0.00
ATOM 1659	CG	HIS A 108	10.260	-10.603	4.345	1.00	0.00
ATOM 1660	ND1	HIS A 108	10.108	-11.834	4.946	1.00	0.00
ATOM 1661	CD2	HIS A 108	11.584	-10.323	4.393	1.00	0.00
ATOM 1662	CE1	HIS A 108	11.289	-12.277	5.342	1.00	0.00
ATOM 1663	NE2	HIS A 108	12.200	-11.379	5.017	1.00	0.00
ATOM 1664	H	HIS A 108	8.969	-6.721	3.509	1.00	0.00
ATOM 1665	HA	HIS A 108	10.534	-8.339	3.180	1.00	0.00
ATOM 1666	1HB	HIS A 108	8.540	-9.432	4.611	1.00	0.00
ATOM 1667	2HB	HIS A 108	8.496	-10.498	3.211	1.00	0.00
ATOM 1668	HD1	HIS A 108	9.262	-12.312	5.067	1.00	0.00
ATOM 1669	HD2	HIS A 108	12.066	-9.434	4.011	1.00	0.00
ATOM 1670	HE1	HIS A 108	11.477	-13.215	5.844	1.00	0.00
ATOM 1671	HE2	HIS A 108	13.145	-11.415	5.275	1.00	0.00
ATOM 1672	N	ASN A 109	10.197	-8.292	0.577	1.00	0.00
ATOM 1673	CA	ASN A 109	10.312	-8.610	-0.842	1.00	0.00
ATOM 1674	C	ASN A 109	8.935	-8.786	-1.476	1.00	0.00

ATOM 1675	O	ASN A 109	8.757	-9.605	-2.378	1.00	0.00
ATOM 1676	CB	ASN A 109	11.140	-9.881	-1.036	1.00	0.00
ATOM 1677	CG	ASN A 109	12.562	-9.728	-0.532	1.00	0.00
ATOM 1678	OD1	ASN A 109	12.797	-9.158	0.534	1.00	0.00
ATOM 1679	ND2	ASN A 109	13.520	-10.236	-1.298	1.00	0.00
ATOM 1680	H	ASN A 109	10.578	-7.453	0.910	1.00	0.00
ATOM 1681	HA	ASN A 109	10.814	-7.786	-1.327	1.00	0.00
ATOM 1682	1HB	ASN A 109	10.674	-10.693	-0.500	1.00	0.00
ATOM 1683	2HB	ASN A 109	11.175	-10.123	-2.088	1.00	0.00
ATOM 1684	1HD2	ASN A 109	13.260	-10.675	-2.134	1.00	0.00
ATOM 1685	2HD2	ASN A 109	14.449	-10.150	-0.996	1.00	0.00
ATOM 1686	N	GLY A 110	7.964	-8.014	-0.997	1.00	0.00
ATOM 1687	CA	GLY A 110	6.617	-8.101	-1.530	1.00	0.00
ATOM 1688	C	GLY A 110	6.038	-9.498	-1.424	1.00	0.00
ATOM 1689	O	GLY A 110	5.712	-10.121	-2.434	1.00	0.00
ATOM 1690	H	GLY A 110	8.165	-7.380	-0.279	1.00	0.00
ATOM 1691	1HA	GLY A 110	5.981	-7.418	-0.986	1.00	0.00
ATOM 1692	2HA	GLY A 110	6.633	-7.809	-2.570	1.00	0.00
ATOM 1693	N	THR A 111	5.911	-9.992	-0.197	1.00	0.00
ATOM 1694	CA	THR A 111	5.369	-11.326	0.036	1.00	0.00
ATOM 1695	C	THR A 111	4.224	-11.285	1.042	1.00	0.00
ATOM 1696	O	THR A 111	3.190	-11.922	0.846	1.00	0.00
ATOM 1697	CB	THR A 111	6.467	-12.265	0.538	1.00	0.00
ATOM 1698	OG1	THR A 111	7.167	-11.684	1.624	1.00	0.00
ATOM 1699	CG2	THR A 111	7.484	-12.620	-0.526	1.00	0.00
ATOM 1700	H	THR A 111	6.190	-9.448	0.570	1.00	0.00
ATOM 1701	HA	THR A 111	4.992	-11.699	-0.905	1.00	0.00

ATOM 1702	HB	THR A 111	6.012	-13.183	0.880	1.00	0.00
ATOM 1703	HG1	THR A 111	7.329	-12.351	2.295	1.00	0.00
ATOM 1704	1HG2	THR A 111	7.397	-11.930	-1.352	1.00	0.00
ATOM 1705	2HG2	THR A 111	7.303	-13.625	-0.875	1.00	0.00
ATOM 1706	3HG2	THR A 111	8.478	-12.557	-0.109	1.00	0.00
ATOM 1707	N	GLN A 112	4.415	-10.533	2.122	1.00	0.00
ATOM 1708	CA	GLN A 112	3.395	-10.415	3.157	1.00	0.00
ATOM 1709	C	GLN A 112	3.285	-8.980	3.662	1.00	0.00
ATOM 1710	O	GLN A 112	4.190	-8.472	4.323	1.00	0.00
ATOM 1711	CB	GLN A 112	3.714	-11.353	4.323	1.00	0.00
ATOM 1712	CG	GLN A 112	2.608	-11.429	5.363	1.00	0.00
ATOM 1713	CD	GLN A 112	2.545	-12.780	6.048	1.00	0.00
ATOM 1714	OE1	GLN A 112	3.511	-13.543	6.031	1.00	0.00
ATOM 1715	NE2	GLN A 112	1.405	-13.083	6.658	1.00	0.00
ATOM 1716	H	GLN A 112	5.260	-10.049	2.225	1.00	0.00
ATOM 1717	HA	GLN A 112	2.450	-10.704	2.724	1.00	0.00
ATOM 1718	1HB	GLN A 112	3.883	-12.346	3.935	1.00	0.00
ATOM 1719	2HB	GLN A 112	4.614	-11.008	4.811	1.00	0.00
ATOM 1720	1HG	GLN A 112	2.783	-10.671	6.112	1.00	0.00
ATOM 1721	2HG	GLN A 112	1.662	-11.243	4.878	1.00	0.00
ATOM 1722	1HE2	GLN A 112	0.678	-12.427	6.631	1.00	0.00
ATOM 1723	2HE2	GLN A 112	1.337	-13.950	7.108	1.00	0.00
ATOM 1724	N	LEU A 113	2.167	-8.332	3.348	1.00	0.00
ATOM 1725	CA	LEU A 113	1.937	-6.957	3.774	1.00	0.00
ATOM 1726	C	LEU A 113	1.128	-6.923	5.067	1.00	0.00
ATOM 1727	O	LEU A 113	-0.099	-7.011	5.045	1.00	0.00
ATOM 1728	CB	LEU A 113	1.208	-6.174	2.676	1.00	0.00



ATOM 1729	CG	LEU A 113	0.849	-4.723	3.022	1.00	0.00
ATOM 1730	CD1	LEU A 113	-0.478	-4.662	3.763	1.00	0.00
ATOM 1731	CD2	LEU A 113	1.951	-4.071	3.846	1.00	0.00
ATOM 1732	H	LEU A 113	1.480	-8.790	2.821	1.00	0.00
ATOM 1733	HA	LEU A 113	2.898	-6.499	3.953	1.00	0.00
ATOM 1734	1HB	LEU A 113	1.835	-6.165	1.796	1.00	0.00
ATOM 1735	2HB	LEU A 113	0.295	-6.698	2.438	1.00	0.00
ATOM 1736	HG	LEU A 113	0.740	-4.160	2.105	1.00	0.00
ATOM 1737	1HD1	LEU A 113	-1.015	-3.773	3.467	1.00	0.00
ATOM 1738	2HD1	LEU A 113	-0.294	-4.634	4.827	1.00	0.00
ATOM 1739	3HD1	LEU A 113	-1.065	-5.535	3.521	1.00	0.00
ATOM 1740	1HD2	LEU A 113	2.853	-4.011	3.258	1.00	0.00
ATOM 1741	2HD2	LEU A 113	2.136	-4.661	4.731	1.00	0.00
ATOM 1742	3HD2	LEU A 113	1.644	-3.076	4.135	1.00	0.00
ATOM 1743	N	LEU A 114	1.827	-6.797	6.191	1.00	0.00
ATOM 1744	CA	LEU A 114	1.180	-6.754	7.498	1.00	0.00
ATOM 1745	C	LEU A 114	0.424	-8.051	7.780	1.00	0.00
ATOM 1746	O	LEU A 114	0.907	-8.913	8.513	1.00	0.00
ATOM 1747	CB	LEU A 114	0.227	-5.558	7.582	1.00	0.00
ATOM 1748	CG	LEU A 114	0.906	-4.188	7.594	1.00	0.00
ATOM 1749	CD1	LEU A 114	-0.123	-3.080	7.774	1.00	0.00
ATOM 1750	CD2	LEU A 114	1.959	-4.125	8.691	1.00	0.00
ATOM 1751	H	LEU A 114	2.803	-6.733	6.141	1.00	0.00
ATOM 1752	HA	LEU A 114	1.953	-6.636	8.243	1.00	0.00
ATOM 1753	1HB	LEU A 114	-0.444	-5.598	6.736	1.00	0.00
ATOM 1754	2HB	LEU A 114	-0.357	-5.653	8.485	1.00	0.00
ATOM 1755	HG	LEU A 114	1.400	-4.031	6.646	1.00	0.00

ATOM 1756	1HD1	LEU	A	114	-1.110	-3.513	7.855	1.00	0.00
ATOM 1757	2HD1	LEU	A	114	-0.091	-2.417	6.921	1.00	0.00
ATOM 1758	3HD1	LEU	A	114	0.100	-2.522	8.671	1.00	0.00
ATOM 1759	1HD2	LEU	A	114	1.509	-4.389	9.637	1.00	0.00
ATOM 1760	2HD2	LEU	A	114	2.358	-3.123	8.750	1.00	0.00
ATOM 1761	3HD2	LEU	A	114	2.755	-4.818	8.466	1.00	0.00
ATOM 1762	N	ASN	A	115	-0.762	-8.182	7.194	1.00	0.00
ATOM 1763	CA	ASN	A	115	-1.580	-9.375	7.383	1.00	0.00
ATOM 1764	C	ASN	A	115	-2.287	-9.759	6.087	1.00	0.00
ATOM 1765	O	ASN	A	115	-3.439	-10.192	6.102	1.00	0.00
ATOM 1766	CB	ASN	A	115	-2.610	-9.142	8.490	1.00	0.00
ATOM 1767	CG	ASN	A	115	-3.296	-10.423	8.920	1.00	0.00
ATOM 1768	OD1	ASN	A	115	-2.743	-11.208	9.690	1.00	0.00
ATOM 1769	ND2	ASN	A	115	-4.508	-10.639	8.424	1.00	0.00
ATOM 1770	H	ASN	A	115	-1.094	-7.461	6.619	1.00	0.00
ATOM 1771	HA	ASN	A	115	-0.926	-10.182	7.676	1.00	0.00
ATOM 1772	1HB	ASN	A	115	-2.114	-8.715	9.349	1.00	0.00
ATOM 1773	2HB	ASN	A	115	-3.361	-8.453	8.134	1.00	0.00
ATOM 1774	1HD2	ASN	A	115	-4.887	-9.971	7.816	1.00	0.00
ATOM 1775	2HD2	ASN	A	115	-4.976	-11.461	8.686	1.00	0.00
ATOM 1776	N	PHE	A	116	-1.589	-9.599	4.967	1.00	0.00
ATOM 1777	CA	PHE	A	116	-2.152	-9.931	3.663	1.00	0.00
ATOM 1778	C	PHE	A	116	-1.067	-10.419	2.708	1.00	0.00
ATOM 1779	O	PHE	A	116	-0.408	-9.621	2.042	1.00	0.00
ATOM 1780	CB	PHE	A	116	-2.861	-8.713	3.065	1.00	0.00
ATOM 1781	CG	PHE	A	116	-4.221	-8.462	3.650	1.00	0.00
ATOM 1782	CD1	PHE	A	116	-4.357	-7.838	4.880	1.00	0.00

ATOM 1783	CD2	PHE A 116	-5.364	-8.850	2.969	1.00	0.00
ATOM 1784	CE1	PHE A 116	-5.607	-7.605	5.420	1.00	0.00
ATOM 1785	CE2	PHE A 116	-6.617	-8.619	3.505	1.00	0.00
ATOM 1786	CZ	PHE A 116	-6.740	-7.996	4.732	1.00	0.00
ATOM 1787	H	PHE A 116	-0.676	-9.250	5.018	1.00	0.00
ATOM 1788	HA	PHE A 116	-2.873	-10.721	3.804	1.00	0.00
ATOM 1789	1HB	PHE A 116	-2.258	-7.834	3.239	1.00	0.00
ATOM 1790	2HB	PHE A 116	-2.977	-8.860	2.001	1.00	0.00
ATOM 1791	HD1	PHE A 116	-3.473	-7.532	5.418	1.00	0.00
ATOM 1792	HD2	PHE A 116	-5.271	-9.336	2.010	1.00	0.00
ATOM 1793	HE1	PHE A 116	-5.699	-7.118	6.380	1.00	0.00
ATOM 1794	HE2	PHE A 116	-7.502	-8.927	2.964	1.00	0.00
ATOM 1795	HZ	PHE A 116	-7.718	-7.816	5.152	1.00	0.00
ATOM 1796	N	THR A 117	-0.889	-11.735	2.646	1.00	0.00
ATOM 1797	CA	THR A 117	0.116	-12.328	1.771	1.00	0.00
ATOM 1798	C	THR A 117	-0.163	-11.983	0.312	1.00	0.00
ATOM 1799	O	THR A 117	-1.197	-12.361	-0.238	1.00	0.00
ATOM 1800	CB	THR A 117	0.147	-13.848	1.950	1.00	0.00
ATOM 1801	OG1	THR A 117	-1.140	-14.403	1.749	1.00	0.00
ATOM 1802	CG2	THR A 117	0.625	-14.279	3.320	1.00	0.00
ATOM 1803	H	THR A 117	-1.446	-12.320	3.200	1.00	0.00
ATOM 1804	HA	THR A 117	1.077	-11.922	2.046	1.00	0.00
ATOM 1805	HB	THR A 117	0.818	-14.272	1.217	1.00	0.00
ATOM 1806	HG1	THR A 117	-1.713	-14.159	2.481	1.00	0.00
ATOM 1807	1HG2	THR A 117	0.031	-15.113	3.663	1.00	0.00
ATOM 1808	2HG2	THR A 117	0.524	-13.456	4.012	1.00	0.00
ATOM 1809	3HG2	THR A 117	1.663	-14.574	3.263	1.00	0.00

ATOM 1810	N	LEU A 118	0.765	-11.262	-0.309	1.00	0.00
ATOM 1811	CA	LEU A 118	0.615	-10.867	-1.705	1.00	0.00
ATOM 1812	C	LEU A 118	1.904	-11.110	-2.483	1.00	0.00
ATOM 1813	O	LEU A 118	2.979	-11.240	-1.897	1.00	0.00
ATOM 1814	CB	LEU A 118	0.208	-9.396	-1.800	1.00	0.00
ATOM 1815	CG	LEU A 118	1.199	-8.403	-1.189	1.00	0.00
ATOM 1816	CD1	LEU A 118	2.210	-7.951	-2.232	1.00	0.00
ATOM 1817	CD2	LEU A 118	0.464	-7.209	-0.597	1.00	0.00
ATOM 1818	H	LEU A 118	1.569	-10.990	0.181	1.00	0.00
ATOM 1819	HA	LEU A 118	-0.167	-11.474	-2.136	1.00	0.00
ATOM 1820	1HB	LEU A 118	0.078	-9.146	-2.843	1.00	0.00
ATOM 1821	2HB	LEU A 118	-0.741	-9.275	-1.299	1.00	0.00
ATOM 1822	HG	LEU A 118	1.741	-8.893	-0.392	1.00	0.00
ATOM 1823	1HD1	LEU A 118	1.802	-8.106	-3.219	1.00	0.00
ATOM 1824	2HD1	LEU A 118	3.120	-8.521	-2.124	1.00	0.00
ATOM 1825	3HD1	LEU A 118	2.423	-6.900	-2.093	1.00	0.00
ATOM 1826	1HD2	LEU A 118	-0.595	-7.308	-0.785	1.00	0.00
ATOM 1827	2HD2	LEU A 118	0.827	-6.298	-1.050	1.00	0.00
ATOM 1828	3HD2	LEU A 118	0.637	-7.174	0.470	1.00	0.00
ATOM 1829	N	ASP A 119	1.789	-11.177	-3.805	1.00	0.00
ATOM 1830	CA	ASP A 119	2.944	-11.412	-4.663	1.00	0.00
ATOM 1831	C	ASP A 119	3.727	-10.124	-4.898	1.00	0.00
ATOM 1832	O	ASP A 119	3.205	-9.025	-4.713	1.00	0.00
ATOM 1833	CB	ASP A 119	2.498	-12.005	-6.002	1.00	0.00
ATOM 1834	CG	ASP A 119	3.337	-13.199	-6.414	1.00	0.00
ATOM 1835	OD1	ASP A 119	3.359	-14.196	-5.662	1.00	0.00
ATOM 1836	OD2	ASP A 119	3.972	-13.137	-7.487	1.00	0.00

ATOM 1837	H	ASP A 119	0.904	-11.069	-4.214	1.00	0.00
ATOM 1838	HA	ASP A 119	3.587	-12.122	-4.163	1.00	0.00
ATOM 1839	1HB	ASP A 119	1.469	-12.323	-5.923	1.00	0.00
ATOM 1840	2HB	ASP A 119	2.579	-11.249	-6.769	1.00	0.00
ATOM 1841	N	ARG A 120	4.983	-10.270	-5.307	1.00	0.00
ATOM 1842	CA	ARG A 120	5.842	-9.121	-5.570	1.00	0.00
ATOM 1843	C	ARG A 120	5.887	-8.809	-7.063	1.00	0.00
ATOM 1844	O	ARG A 120	6.001	-7.651	-7.463	1.00	0.00
ATOM 1845	CB	ARG A 120	7.256	-9.388	-5.050	1.00	0.00
ATOM 1846	CG	ARG A 120	8.223	-8.241	-5.297	1.00	0.00
ATOM 1847	CD	ARG A 120	9.565	-8.742	-5.807	1.00	0.00
ATOM 1848	NE	ARG A 120	9.567	-8.920	-7.257	1.00	0.00
ATOM 1849	CZ	ARG A 120	10.447	-9.676	-7.910	1.00	0.00
ATOM 1850	NH1	ARG A 120	11.397	-10.326	-7.248	1.00	0.00
ATOM 1851	NH2	ARG A 120	10.376	-9.785	-9.230	1.00	0.00
ATOM 1852	H	ARG A 120	5.340	-11.174	-5.437	1.00	0.00
ATOM 1853	HA	ARG A 120	5.430	-8.272	-5.048	1.00	0.00
ATOM 1854	1HB	ARG A 120	7.207	-9.567	-3.987	1.00	0.00
ATOM 1855	2HB	ARG A 120	7.646	-10.271	-5.537	1.00	0.00
ATOM 1856	1HG	ARG A 120	7.797	-7.575	-6.031	1.00	0.00
ATOM 1857	2HG	ARG A 120	8.378	-7.708	-4.369	1.00	0.00
ATOM 1858	1HD	ARG A 120	10.328	-8.025	-5.541	1.00	0.00
ATOM 1859	2HD	ARG A 120	9.783	-9.689	-5.337	1.00	0.00
ATOM 1860	HE	ARG A 120	8.877	-8.451	-7.771	1.00	0.00
ATOM 1861	1HH1	ARG A 120	11.456	-10.249	-6.253	1.00	0.00
ATOM 1862	2HH1	ARG A 120	12.053	-10.893	-7.745	1.00	0.00
ATOM 1863	1HH2	ARG A 120	9.663	-9.297	-9.734	1.00	0.00

ATOM 1864	2HH2	ARG A 120	11.037	-10.352	-9.721	1.00	0.00
ATOM 1865	N	LYS A 121	5.797	-9.852	-7.881	1.00	0.00
ATOM 1866	CA	LYS A 121	5.826	-9.694	-9.330	1.00	0.00
ATOM 1867	C	LYS A 121	4.596	-8.938	-9.828	1.00	0.00
ATOM 1868	O	LYS A 121	4.613	-8.356	-10.911	1.00	0.00
ATOM 1869	CB	LYS A 121	5.907	-11.062	-10.011	1.00	0.00
ATOM 1870	CG	LYS A 121	7.296	-11.677	-9.978	1.00	0.00
ATOM 1871	CD	LYS A 121	7.467	-12.604	-8.785	1.00	0.00
ATOM 1872	CE	LYS A 121	8.711	-13.468	-8.925	1.00	0.00
ATOM 1873	NZ	LYS A 121	8.852	-14.426	-7.793	1.00	0.00
ATOM 1874	H	LYS A 121	5.708	-10.751	-7.501	1.00	0.00
ATOM 1875	HA	LYS A 121	6.710	-9.125	-9.583	1.00	0.00
ATOM 1876	1HB	LYS A 121	5.226	-11.737	-9.515	1.00	0.00
ATOM 1877	2HB	LYS A 121	5.608	-10.956	-11.043	1.00	0.00
ATOM 1878	1HG	LYS A 121	7.450	-12.243	-10.885	1.00	0.00
ATOM 1879	2HG	LYS A 121	8.029	-10.886	-9.916	1.00	0.00
ATOM 1880	1HD	LYS A 121	7.555	-12.008	-7.889	1.00	0.00
ATOM 1881	2HD	LYS A 121	6.601	-13.244	-8.711	1.00	0.00
ATOM 1882	1HE	LYS A 121	8.646	-14.023	-9.848	1.00	0.00
ATOM 1883	2HE	LYS A 121	9.578	-12.825	-8.952	1.00	0.00
ATOM 1884	1HZ	LYS A 121	9.612	-15.107	-7.994	1.00	0.00
ATOM 1885	2HZ	LYS A 121	7.964	-14.947	-7.653	1.00	0.00
ATOM 1886	3HZ	LYS A 121	9.082	-13.913	-6.918	1.00	0.00
ATOM 1887	N	SER A 122	3.530	-8.955	-9.033	1.00	0.00
ATOM 1888	CA	SER A 122	2.294	-8.273	-9.399	1.00	0.00
ATOM 1889	C	SER A 122	2.302	-6.824	-8.922	1.00	0.00
ATOM 1890	O	SER A 122	1.707	-5.950	-9.554	1.00	0.00

ATOM 1891	CB	SER A 122	1.090	-9.008	-8.809	1.00	0.00
ATOM 1892	OG	SER A 122	-0.088	-8.733	-9.548	1.00	0.00
ATOM 1893	H	SER A 122	3.574	-9.438	-8.182	1.00	0.00
ATOM 1894	HA	SER A 122	2.217	-8.284	-10.476	1.00	0.00
ATOM 1895	1HB	SER A 122	1.273	-10.072	-8.832	1.00	0.00
ATOM 1896	2HB	SER A 122	0.942	-8.689	-7.788	1.00	0.00
ATOM 1897	HG	SER A 122	-0.444	-9.553	-9.900	1.00	0.00
ATOM 1898	N	VAL A 123	2.978	-6.573	-7.806	1.00	0.00
ATOM 1899	CA	VAL A 123	3.059	-5.227	-7.249	1.00	0.00
ATOM 1900	C	VAL A 123	3.689	-4.259	-8.245	1.00	0.00
ATOM 1901	O	VAL A 123	4.652	-4.598	-8.931	1.00	0.00
ATOM 1902	CB	VAL A 123	3.874	-5.207	-5.940	1.00	0.00
ATOM 1903	CG1	VAL A 123	3.814	-3.831	-5.291	1.00	0.00
ATOM 1904	CG2	VAL A 123	3.374	-6.276	-4.980	1.00	0.00
ATOM 1905	H	VAL A 123	3.432	-7.310	-7.346	1.00	0.00
ATOM 1906	HA	VAL A 123	2.055	-4.898	-7.028	1.00	0.00
ATOM 1907	HB	VAL A 123	4.906	-5.422	-6.178	1.00	0.00
ATOM 1908	1HG1	VAL A 123	2.949	-3.775	-4.647	1.00	0.00
ATOM 1909	2HG1	VAL A 123	3.742	-3.074	-6.057	1.00	0.00
ATOM 1910	3HG1	VAL A 123	4.708	-3.670	-4.707	1.00	0.00
ATOM 1911	1HG2	VAL A 123	4.216	-6.791	-4.542	1.00	0.00
ATOM 1912	2HG2	VAL A 123	2.760	-6.984	-5.516	1.00	0.00
ATOM 1913	3HG2	VAL A 123	2.789	-5.814	-4.198	1.00	0.00
ATOM 1914	N	PHE A 124	3.136	-3.052	-8.319	1.00	0.00
ATOM 1915	CA	PHE A 124	3.642	-2.035	-9.233	1.00	0.00
ATOM 1916	C	PHE A 124	2.930	-0.704	-9.016	1.00	0.00
ATOM 1917	O	PHE A 124	1.779	-0.668	-8.577	1.00	0.00

ATOM	1918	CB	PHE A 124	3.466	-2.491	-10.683	1.00	0.00
ATOM	1919	CG	PHE A 124	4.256	-1.677	-11.668	1.00	0.00
ATOM	1920	CD1	PHE A 124	5.427	-2.174	-12.216	1.00	0.00
ATOM	1921	CD2	PHE A 124	3.826	-0.415	-12.047	1.00	0.00
ATOM	1922	CE1	PHE A 124	6.156	-1.429	-13.123	1.00	0.00
ATOM	1923	CE2	PHE A 124	4.549	0.336	-12.953	1.00	0.00
ATOM	1924	CZ	PHE A 124	5.716	-0.172	-13.493	1.00	0.00
ATOM	1925	H	PHE A 124	2.368	-2.841	-7.746	1.00	0.00
ATOM	1926	HA	PHE A 124	4.695	-1.903	-9.031	1.00	0.00
ATOM	1927	1HB	PHE A 124	3.785	-3.519	-10.770	1.00	0.00
ATOM	1928	2HB	PHE A 124	2.422	-2.419	-10.951	1.00	0.00
ATOM	1929	HD1	PHE A 124	5.771	-3.157	-11.928	1.00	0.00
ATOM	1930	HD2	PHE A 124	2.914	-0.018	-11.626	1.00	0.00
ATOM	1931	HE1	PHE A 124	7.068	-1.827	-13.543	1.00	0.00
ATOM	1932	HE2	PHE A 124	4.204	1.317	-13.240	1.00	0.00
ATOM	1933	HZ	PHE A 124	6.284	0.413	-14.202	1.00	0.00
ATOM	1934	N	VAL A 125	3.620	0.388	-9.325	1.00	0.00
ATOM	1935	CA	VAL A 125	3.055	1.721	-9.164	1.00	0.00
ATOM	1936	C	VAL A 125	3.546	2.662	-10.260	1.00	0.00
ATOM	1937	O	VAL A 125	4.749	2.803	-10.476	1.00	0.00
ATOM	1938	CB	VAL A 125	3.409	2.318	-7.786	1.00	0.00
ATOM	1939	CG1	VAL A 125	4.917	2.441	-7.628	1.00	0.00
ATOM	1940	CG2	VAL A 125	2.729	3.667	-7.593	1.00	0.00
ATOM	1941	H	VAL A 125	4.532	0.294	-9.670	1.00	0.00
ATOM	1942	HA	VAL A 125	1.979	1.637	-9.231	1.00	0.00
ATOM	1943	HB	VAL A 125	3.045	1.644	-7.023	1.00	0.00
ATOM	1944	1HG1	VAL A 125	5.167	2.471	-6.577	1.00	0.00



ATOM 1945	2HG1	VAL	A	125	5.255	3.348	-8.104	1.00	0.00
ATOM 1946	3HG1	VAL	A	125	5.398	1.590	-8.088	1.00	0.00
ATOM 1947	1HG2	VAL	A	125	1.912	3.562	-6.895	1.00	0.00
ATOM 1948	2HG2	VAL	A	125	2.350	4.019	-8.541	1.00	0.00
ATOM 1949	3HG2	VAL	A	125	3.444	4.379	-7.205	1.00	0.00
ATOM 1950	N	ASP	A	126	2.607	3.302	-10.948	1.00	0.00
ATOM 1951	CA	ASP	A	126	2.945	4.229	-12.023	1.00	0.00
ATOM 1952	C	ASP	A	126	2.202	5.551	-11.852	1.00	0.00
ATOM 1953	O	ASP	A	126	1.404	5.711	-10.929	1.00	0.00
ATOM 1954	CB	ASP	A	126	2.612	3.610	-13.382	1.00	0.00
ATOM 1955	CG	ASP	A	126	3.816	3.548	-14.301	1.00	0.00
ATOM 1956	OD1	ASP	A	126	3.804	2.724	-15.240	1.00	0.00
ATOM 1957	OD2	ASP	A	126	4.771	4.322	-14.081	1.00	0.00
ATOM 1958	H	ASP	A	126	1.665	3.148	-10.729	1.00	0.00
ATOM 1959	HA	ASP	A	126	4.006	4.418	-11.974	1.00	0.00
ATOM 1960	1HB	ASP	A	126	2.245	2.606	-13.233	1.00	0.00
ATOM 1961	2HB	ASP	A	126	1.844	4.200	-13.863	1.00	0.00
ATOM 1962	N	SER	A	127	2.471	6.495	-12.748	1.00	0.00
ATOM 1963	CA	SER	A	127	1.829	7.805	-12.698	1.00	0.00
ATOM 1964	C	SER	A	127	0.310	7.670	-12.737	1.00	0.00
ATOM 1965	O	SER	A	127	-0.274	7.414	-13.790	1.00	0.00
ATOM 1966	CB	SER	A	127	2.306	8.674	-13.862	1.00	0.00
ATOM 1967	OG	SER	A	127	2.490	10.018	-13.453	1.00	0.00
ATOM 1968	H	SER	A	127	3.118	6.308	-13.460	1.00	0.00
ATOM 1969	HA	SER	A	127	2.113	8.277	-11.769	1.00	0.00
ATOM 1970	1HB	SER	A	127	3.246	8.293	-14.233	1.00	0.00
ATOM 1971	2HB	SER	A	127	1.571	8.649	-14.653	1.00	0.00

ATOM 1972	HG	SER A 127	2.307	10.606	-14.191	1.00	0.00
ATOM 1973	N	GLY A 128	-0.323	7.845	-11.581	1.00	0.00
ATOM 1974	CA	GLY A 128	-1.768	7.740	-11.501	1.00	0.00
ATOM 1975	C	GLY A 128	-2.477	8.896	-12.184	1.00	0.00
ATOM 1976	O	GLY A 128	-3.230	8.687	-13.135	1.00	0.00
ATOM 1977	H	GLY A 128	0.196	8.047	-10.775	1.00	0.00
ATOM 1978	1HA	GLY A 128	-2.077	6.817	-11.970	1.00	0.00
ATOM 1979	2HA	GLY A 128	-2.059	7.717	-10.461	1.00	0.00
ATOM 1980	N	PRO A 129	-2.259	10.137	-11.718	1.00	0.00
ATOM 1981	CA	PRO A 129	-2.893	11.323	-12.302	1.00	0.00
ATOM 1982	C	PRO A 129	-2.530	11.509	-13.771	1.00	0.00
ATOM 1983	O	PRO A 129	-1.387	11.824	-14.104	1.00	0.00
ATOM 1984	CB	PRO A 129	-2.348	12.486	-11.463	1.00	0.00
ATOM 1985	CG	PRO A 129	-1.127	11.949	-10.798	1.00	0.00
ATOM 1986	CD	PRO A 129	-1.380	10.486	-10.589	1.00	0.00
ATOM 1987	HA	PRO A 129	-3.969	11.281	-12.205	1.00	0.00
ATOM 1988	1HB	PRO A 129	-2.111	13.318	-12.110	1.00	0.00
ATOM 1989	2HB	PRO A 129	-3.089	12.788	-10.739	1.00	0.00
ATOM 1990	1HG	PRO A 129	-0.267	12.093	-11.438	1.00	0.00
ATOM 1991	2HG	PRO A 129	-0.978	12.444	-9.850	1.00	0.00
ATOM 1992	1HD	PRO A 129	-0.454	9.932	-10.632	1.00	0.00
ATOM 1993	2HD	PRO A 129	-1.879	10.318	-9.646	1.00	0.00
ATOM 1994	N	SER A 130	-3.510	11.310	-14.646	1.00	0.00
ATOM 1995	CA	SER A 130	-3.296	11.456	-16.081	1.00	0.00
ATOM 1996	C	SER A 130	-4.600	11.261	-16.848	1.00	0.00
ATOM 1997	O	SER A 130	-4.879	11.975	-17.811	1.00	0.00
ATOM 1998	CB	SER A 130	-2.250	10.450	-16.566	1.00	0.00

ATOM 1999	OG	SER A 130	-2.218	10.388	-17.982	1.00	0.00
ATOM 2000	H	SER A 130	-4.400	11.061	-14.319	1.00	0.00
ATOM 2001	HA	SER A 130	-2.932	12.455	-16.263	1.00	0.00
ATOM 2002	1HB	SER A 130	-1.275	10.747	-16.210	1.00	0.00
ATOM 2003	2HB	SER A 130	-2.490	9.470	-16.181	1.00	0.00
ATOM 2004	HG	SER A 130	-1.865	11.211	-18.331	1.00	0.00
ATOM 2005	N	SER A 131	-5.396	10.288	-16.415	1.00	0.00
ATOM 2006	CA	SER A 131	-6.671	9.999	-17.059	1.00	0.00
ATOM 2007	C	SER A 131	-7.620	11.188	-16.946	1.00	0.00
ATOM 2008	O	SER A 131	-7.215	12.283	-16.556	1.00	0.00
ATOM 2009	CB	SER A 131	-7.310	8.755	-16.438	1.00	0.00
ATOM 2010	OG	SER A 131	-7.741	7.849	-17.439	1.00	0.00
ATOM 2011	H	SER A 131	-5.119	9.752	-15.642	1.00	0.00
ATOM 2012	HA	SER A 131	-6.477	9.809	-18.104	1.00	0.00
ATOM 2013	1HB	SER A 131	-6.587	8.258	-15.809	1.00	0.00
ATOM 2014	2HB	SER A 131	-8.163	9.049	-15.844	1.00	0.00
ATOM 2015	HG	SER A 131	-8.533	8.191	-17.862	1.00	0.00
ATOM 2016	N	GLY A 132	-8.885	10.965	-17.287	1.00	0.00
ATOM 2017	CA	GLY A 132	-9.872	12.025	-17.217	1.00	0.00
ATOM 2018	C	GLY A 132	-11.147	11.587	-16.521	1.00	0.00
ATOM 2019	H	GLY A 132	-9.150	10.071	-17.589	1.00	0.00
ATOM 2020	1HA	GLY A 132	-9.450	12.861	-16.678	1.00	0.00
ATOM 2021	2HA	GLY A 132	-10.115	12.344	-18.219	1.00	0.00
TER 2022		GLY A 132					

ENDMDL

Three-Dimensional Structure Coordinate 3

ATOM 1	N	GLY A	1	-16.346	31.292	-2.661	1.00	0.00
ATOM 2	CA	GLY A	1	-15.842	30.998	-4.031	1.00	0.00
ATOM 3	C	GLY A	1	-16.023	29.543	-4.416	1.00	0.00
ATOM 4	O	GLY A	1	-15.914	28.653	-3.573	1.00	0.00
ATOM 5	1H	GLY A	1	-15.834	30.717	-1.960	1.00	0.00
ATOM 6	2H	GLY A	1	-17.360	31.073	-2.598	1.00	0.00
ATOM 7	3H	GLY A	1	-16.205	32.298	-2.436	1.00	0.00
ATOM 8	1HA	GLY A	1	-16.374	31.615	-4.738	1.00	0.00
ATOM 9	2HA	GLY A	1	-14.790	31.243	-4.076	1.00	0.00
ATOM 10	N	SER A	2	-16.301	29.302	-5.693	1.00	0.00
ATOM 11	CA	SER A	2	-16.499	27.944	-6.189	1.00	0.00
ATOM 12	C	SER A	2	-15.310	27.493	-7.031	1.00	0.00
ATOM 13	O	SER A	2	-15.465	26.724	-7.979	1.00	0.00
ATOM 14	CB	SER A	2	-17.784	27.861	-7.013	1.00	0.00
ATOM 15	OG	SER A	2	-18.328	26.553	-6.981	1.00	0.00
ATOM 16	H	SER A	2	-16.375	30.053	-6.317	1.00	0.00
ATOM 17	HA	SER A	2	-16.587	27.289	-5.335	1.00	0.00
ATOM 18	1HB	SER A	2	-18.512	28.549	-6.611	1.00	0.00
ATOM 19	2HB	SER A	2	-17.569	28.124	-8.038	1.00	0.00
ATOM 20	HG	SER A	2	-18.802	26.422	-6.157	1.00	0.00
ATOM 21	N	SER A	3	-14.124	27.979	-6.680	1.00	0.00
ATOM 22	CA	SER A	3	-12.909	27.625	-7.404	1.00	0.00
ATOM 23	C	SER A	3	-12.459	26.210	-7.055	1.00	0.00
ATOM 24	O	SER A	3	-12.185	25.904	-5.895	1.00	0.00
ATOM 25	CB	SER A	3	-11.791	28.621	-7.085	1.00	0.00
ATOM 26	OG	SER A	3	-11.216	28.353	-5.818	1.00	0.00
ATOM 27	H	SER A	3	-14.064	28.588	-5.915	1.00	0.00

ATOM 28	HA	SER A	3	-13.127	27.670	-8.460	1.00	0.00
ATOM 29	1HB	SER A	3	-11.021	28.548	-7.838	1.00	0.00
ATOM 30	2HB	SER A	3	-12.195	29.622	-7.080	1.00	0.00
ATOM 31	HG	SER A	3	-10.261	28.438	-5.874	1.00	0.00
ATOM 32	N	GLY A	4	-12.386	25.352	-8.066	1.00	0.00
ATOM 33	CA	GLY A	4	-11.969	23.979	-7.846	1.00	0.00
ATOM 34	C	GLY A	4	-10.602	23.685	-8.431	1.00	0.00
ATOM 35	O	GLY A	4	-9.696	23.247	-7.720	1.00	0.00
ATOM 36	H	GLY A	4	-12.616	25.652	-8.971	1.00	0.00
ATOM 37	1HA	GLY A	4	-11.943	23.789	-6.783	1.00	0.00
ATOM 38	2HA	GLY A	4	-12.692	23.318	-8.301	1.00	0.00
ATOM 39	N	SER A	5	-10.450	23.927	-9.729	1.00	0.00
ATOM 40	CA	SER A	5	-9.184	23.684	-10.409	1.00	0.00
ATOM 41	C	SER A	5	-8.238	24.869	-10.239	1.00	0.00
ATOM 42	O	SER A	5	-8.231	25.792	-11.053	1.00	0.00
ATOM 43	CB	SER A	5	-9.422	23.418	-11.896	1.00	0.00
ATOM 44	OG	SER A	5	-8.200	23.188	-12.576	1.00	0.00
ATOM 45	H	SER A	5	-11.210	24.275	-10.242	1.00	0.00
ATOM 46	HA	SER A	5	-8.730	22.811	-9.965	1.00	0.00
ATOM 47	1HB	SER A	5	-10.050	22.546	-12.008	1.00	0.00
ATOM 48	2HB	SER A	5	-9.912	24.272	-12.340	1.00	0.00
ATOM 49	HG	SER A	5	-7.652	22.596	-12.059	1.00	0.00
ATOM 50	N	SER A	6	-7.443	24.836	-9.174	1.00	0.00
ATOM 51	CA	SER A	6	-6.493	25.908	-8.897	1.00	0.00
ATOM 52	C	SER A	6	-5.218	25.355	-8.267	1.00	0.00
ATOM 53	O	SER A	6	-5.212	24.957	-7.102	1.00	0.00
ATOM 54	CB	SER A	6	-7.124	26.951	-7.971	1.00	0.00

ATOM 55	OG	SER A	6	-7.566	28.080	-8.704	1.00	0.00
ATOM 56	H	SER A	6	-7.495	24.074	-8.561	1.00	0.00
ATOM 57	HA	SER A	6	-6.241	26.378	-9.835	1.00	0.00
ATOM 58	1HB	SER A	6	-7.972	26.514	-7.465	1.00	0.00
ATOM 59	2HB	SER A	6	-6.396	27.272	-7.243	1.00	0.00
ATOM 60	HG	SER A	6	-6.810	28.526	-9.093	1.00	0.00
ATOM 61	N	GLY A	7	-4.142	25.334	-9.046	1.00	0.00
ATOM 62	CA	GLY A	7	-2.876	24.828	-8.548	1.00	0.00
ATOM 63	C	GLY A	7	-2.523	23.473	-9.128	1.00	0.00
ATOM 64	O	GLY A	7	-2.555	22.463	-8.426	1.00	0.00
ATOM 65	H	GLY A	7	-4.206	25.665	-9.966	1.00	0.00
ATOM 66	1HA	GLY A	7	-2.096	25.531	-8.802	1.00	0.00
ATOM 67	2HA	GLY A	7	-2.933	24.744	-7.472	1.00	0.00
ATOM 68	N	SER A	8	-2.186	23.452	-10.414	1.00	0.00
ATOM 69	CA	SER A	8	-1.826	22.210	-11.088	1.00	0.00
ATOM 70	C	SER A	8	-0.370	21.846	-10.816	1.00	0.00
ATOM 71	O	SER A	8	-0.012	20.669	-10.767	1.00	0.00
ATOM 72	CB	SER A	8	-2.060	22.336	-12.594	1.00	0.00
ATOM 73	OG	SER A	8	-3.396	22.713	-12.873	1.00	0.00
ATOM 74	H	SER A	8	-2.179	24.290	-10.921	1.00	0.00
ATOM 75	HA	SER A	8	-2.459	21.426	-10.699	1.00	0.00
ATOM 76	1HB	SER A	8	-1.396	23.086	-12.998	1.00	0.00
ATOM 77	2HB	SER A	8	-1.860	21.387	-13.068	1.00	0.00
ATOM 78	HG	SER A	8	-3.693	22.273	-13.673	1.00	0.00
ATOM 79	N	SER A	9	0.466	22.864	-10.639	1.00	0.00
ATOM 80	CA	SER A	9	1.884	22.652	-10.372	1.00	0.00
ATOM 81	C	SER A	9	2.132	22.448	-8.880	1.00	0.00

ATOM 82	O	SER A	9	2.906	23.178	-8.262	1.00	0.00
ATOM 83	CB	SER A	9	2.703	23.839	-10.882	1.00	0.00
ATOM 84	OG	SER A	9	3.956	23.414	-11.390	1.00	0.00
ATOM 85	H	SER A	9	0.121	23.780	-10.690	1.00	0.00
ATOM 86	HA	SER A	9	2.190	21.761	-10.900	1.00	0.00
ATOM 87	1HB	SER A	9	2.159	24.337	-11.671	1.00	0.00
ATOM 88	2HB	SER A	9	2.874	24.531	-10.070	1.00	0.00
ATOM 89	HG	SER A	9	4.346	24.121	-11.912	1.00	0.00
ATOM 90	N	SER A	10	1.469	21.448	-8.308	1.00	0.00
ATOM 91	CA	SER A	10	1.617	21.148	-6.889	1.00	0.00
ATOM 92	C	SER A	10	1.164	19.723	-6.584	1.00	0.00
ATOM 93	O	SER A	10	0.229	19.213	-7.201	1.00	0.00
ATOM 94	CB	SER A	10	0.813	22.141	-6.049	1.00	0.00
ATOM 95	OG	SER A	10	-0.444	22.416	-6.646	1.00	0.00
ATOM 96	H	SER A	10	0.865	20.900	-8.852	1.00	0.00
ATOM 97	HA	SER A	10	2.663	21.241	-6.637	1.00	0.00
ATOM 98	1HB	SER A	10	0.645	21.727	-5.065	1.00	0.00
ATOM 99	2HB	SER A	10	1.365	23.065	-5.960	1.00	0.00
ATOM 100	HG	SER A	10	-0.377	23.211	-7.179	1.00	0.00
ATOM 101	N	SER A	11	1.832	19.087	-5.627	1.00	0.00
ATOM 102	CA	SER A	11	1.498	17.722	-5.240	1.00	0.00
ATOM 103	C	SER A	11	1.663	16.765	-6.417	1.00	0.00
ATOM 104	O	SER A	11	1.704	17.188	-7.572	1.00	0.00
ATOM 105	CB	SER A	11	0.064	17.657	-4.711	1.00	0.00
ATOM 106	OG	SER A	11	-0.030	16.795	-3.591	1.00	0.00
ATOM 107	H	SER A	11	2.568	19.547	-5.171	1.00	0.00
ATOM 108	HA	SER A	11	2.175	17.426	-4.453	1.00	0.00

ATOM 109	1HB	SER A	11	-0.253	18.646	-4.414	1.00	0.00
ATOM 110	2HB	SER A	11	-0.589	17.289	-5.489	1.00	0.00
ATOM 111	N	GLN A	12	1.758	15.474	-6.115	1.00	0.00
ATOM 112	CA	GLN A	12	1.919	14.458	-7.149	1.00	0.00
ATOM 113	C	GLN A	12	1.181	13.177	-6.775	1.00	0.00
ATOM 114	O	GLN A	12	0.946	12.906	-5.597	1.00	0.00
ATOM 115	CB	GLN A	12	3.403	14.159	-7.376	1.00	0.00
ATOM 116	CG	GLN A	12	4.204	14.033	-6.089	1.00	0.00
ATOM 117	CD	GLN A	12	5.694	14.198	-6.313	1.00	0.00
ATOM 118	OE1	GLN A	12	6.309	13.434	-7.055	1.00	0.00
ATOM 119	NE2	GLN A	12	6.282	15.199	-5.669	1.00	0.00
ATOM 120	H	GLN A	12	1.719	15.198	-5.176	1.00	0.00
ATOM 121	HA	GLN A	12	1.497	14.847	-8.063	1.00	0.00
ATOM 122	1HB	GLN A	12	3.491	13.231	-7.921	1.00	0.00
ATOM 123	2HB	GLN A	12	3.832	14.955	-7.965	1.00	0.00
ATOM 124	1HG	GLN A	12	3.874	14.795	-5.398	1.00	0.00
ATOM 125	2HG	GLN A	12	4.023	13.058	-5.661	1.00	0.00
ATOM 126	1HE2	GLN A	12	5.729	15.769	-5.095	1.00	0.00
ATOM 127	2HE2	GLN A	12	7.245	15.329	-5.796	1.00	0.00
ATOM 128	N	HIS A	13	0.816	12.394	-7.785	1.00	0.00
ATOM 129	CA	HIS A	13	0.104	11.140	-7.563	1.00	0.00
ATOM 130	C	HIS A	13	0.904	9.957	-8.100	1.00	0.00
ATOM 131	O	HIS A	13	1.586	10.067	-9.118	1.00	0.00
ATOM 132	CB	HIS A	13	-1.271	11.186	-8.232	1.00	0.00
ATOM 133	CG	HIS A	13	-2.092	12.373	-7.833	1.00	0.00
ATOM 134	ND1	HIS A	13	-3.167	12.826	-8.569	1.00	0.00
ATOM 135	CD2	HIS A	13	-1.991	13.202	-6.767	1.00	0.00



ATOM 136	CE1	HIS A	13	-3.691	13.883	-7.972	1.00	0.00
ATOM 137	NE2	HIS A	13	-2.996	14.130	-6.877	1.00	0.00
ATOM 138	H	HIS A	13	1.032	12.665	-8.702	1.00	0.00
ATOM 139	HA	HIS A	13	-0.028	11.017	-6.499	1.00	0.00
ATOM 140	1HB	HIS A	13	-1.142	11.218	-9.304	1.00	0.00
ATOM 141	2HB	HIS A	13	-1.821	10.295	-7.967	1.00	0.00
ATOM 142	HD1	HIS A	13	-3.496	12.432	-9.403	1.00	0.00
ATOM 143	HD2	HIS A	13	-1.257	13.143	-5.976	1.00	0.00
ATOM 144	HE1	HIS A	13	-4.543	14.447	-8.321	1.00	0.00
ATOM 145	HE2	HIS A	13	-3.225	14.805	-6.204	1.00	0.00
ATOM 146	N	PHE A	14	0.813	8.826	-7.407	1.00	0.00
ATOM 147	CA	PHE A	14	1.527	7.621	-7.814	1.00	0.00
ATOM 148	C	PHE A	14	0.587	6.420	-7.852	1.00	0.00
ATOM 149	O	PHE A	14	0.239	5.857	-6.814	1.00	0.00
ATOM 150	CB	PHE A	14	2.691	7.347	-6.861	1.00	0.00
ATOM 151	CG	PHE A	14	3.735	8.427	-6.866	1.00	0.00
ATOM 152	CD1	PHE A	14	3.801	9.352	-5.837	1.00	0.00
ATOM 153	CD2	PHE A	14	4.650	8.518	-7.903	1.00	0.00
ATOM 154	CE1	PHE A	14	4.760	10.347	-5.840	1.00	0.00
ATOM 155	CE2	PHE A	14	5.612	9.512	-7.912	1.00	0.00
ATOM 156	CZ	PHE A	14	5.666	10.428	-6.879	1.00	0.00
ATOM 157	H	PHE A	14	0.252	8.801	-6.605	1.00	0.00
ATOM 158	HA	PHE A	14	1.918	7.787	-8.807	1.00	0.00
ATOM 159	1HB	PHE A	14	2.310	7.261	-5.855	1.00	0.00
ATOM 160	2HB	PHE A	14	3.168	6.420	-7.142	1.00	0.00
ATOM 161	HD1	PHE A	14	3.093	9.290	-5.022	1.00	0.00
ATOM 162	HD2	PHE A	14	4.609	7.803	-8.712	1.00	0.00

ATOM 163	HE1	PHE	A	14	4.799	11.062	-5.032	1.00	0.00
ATOM 164	HE2	PHE	A	14	6.319	9.572	-8.726	1.00	0.00
ATOM 165	HZ	PHE	A	14	6.415	11.204	-6.884	1.00	0.00
ATOM 166	N	ASN	A	15	0.176	6.034	-9.057	1.00	0.00
ATOM 167	CA	ASN	A	15	-0.727	4.901	-9.235	1.00	0.00
ATOM 168	C	ASN	A	15	-0.186	3.646	-8.555	1.00	0.00
ATOM 169	O	ASN	A	15	0.826	3.087	-8.976	1.00	0.00
ATOM 170	CB	ASN	A	15	-0.950	4.634	-10.726	1.00	0.00
ATOM 171	CG	ASN	A	15	-2.415	4.699	-11.114	1.00	0.00
ATOM 172	OD1	ASN	A	15	-3.013	5.774	-11.143	1.00	0.00
ATOM 173	ND2	ASN	A	15	-2.999	3.545	-11.413	1.00	0.00
ATOM 174	H	ASN	A	15	0.488	6.525	-9.846	1.00	0.00
ATOM 175	HA	ASN	A	15	-1.672	5.159	-8.783	1.00	0.00
ATOM 176	1HB	ASN	A	15	-0.412	5.372	-11.302	1.00	0.00
ATOM 177	2HB	ASN	A	15	-0.575	3.650	-10.972	1.00	0.00
ATOM 178	1HD2	ASN	A	15	-2.461	2.728	-11.369	1.00	0.00
ATOM 179	2HD2	ASN	A	15	-3.946	3.559	-11.667	1.00	0.00
ATOM 180	N	LEU	A	16	-0.872	3.207	-7.504	1.00	0.00
ATOM 181	CA	LEU	A	16	-0.465	2.017	-6.767	1.00	0.00
ATOM 182	C	LEU	A	16	-1.255	0.798	-7.235	1.00	0.00
ATOM 183	O	LEU	A	16	-2.484	0.834	-7.305	1.00	0.00
ATOM 184	CB	LEU	A	16	-0.672	2.228	-5.265	1.00	0.00
ATOM 185	CG	LEU	A	16	-0.007	1.186	-4.364	1.00	0.00
ATOM 186	CD1	LEU	A	16	1.507	1.322	-4.417	1.00	0.00
ATOM 187	CD2	LEU	A	16	-0.509	1.323	-2.934	1.00	0.00
ATOM 188	H	LEU	A	16	-1.674	3.694	-7.219	1.00	0.00
ATOM 189	HA	LEU	A	16	0.584	1.848	-6.958	1.00	0.00

ATOM 190	1HB	LEU	A	16	-0.280	3.201	-5.004	1.00	0.00
ATOM 191	2HB	LEU	A	16	-1.732	2.221	-5.065	1.00	0.00
ATOM 192	HG	LEU	A	16	-0.266	0.198	-4.718	1.00	0.00
ATOM 193	1HD1	LEU	A	16	1.903	1.345	-3.412	1.00	0.00
ATOM 194	2HD1	LEU	A	16	1.770	2.237	-4.927	1.00	0.00
ATOM 195	3HD1	LEU	A	16	1.926	0.480	-4.949	1.00	0.00
ATOM 196	1HD2	LEU	A	16	-1.490	1.774	-2.938	1.00	0.00
ATOM 197	2HD2	LEU	A	16	0.171	1.946	-2.372	1.00	0.00
ATOM 198	3HD2	LEU	A	16	-0.564	0.346	-2.477	1.00	0.00
ATOM 199	N	ASN	A	17	-0.544	-0.278	-7.562	1.00	0.00
ATOM 200	CA	ASN	A	17	-1.189	-1.501	-8.028	1.00	0.00
ATOM 201	C	ASN	A	17	-0.445	-2.740	-7.541	1.00	0.00
ATOM 202	O	ASN	A	17	0.783	-2.802	-7.588	1.00	0.00
ATOM 203	CB	ASN	A	17	-1.263	-1.507	-9.557	1.00	0.00
ATOM 204	CG	ASN	A	17	-2.458	-0.735	-10.080	1.00	0.00
ATOM 205	OD1	ASN	A	17	-3.456	-1.322	-10.499	1.00	0.00
ATOM 206	ND2	ASN	A	17	-2.363	0.589	-10.061	1.00	0.00
ATOM 207	H	ASN	A	17	0.432	-0.247	-7.490	1.00	0.00
ATOM 208	HA	ASN	A	17	-2.191	-1.517	-7.630	1.00	0.00
ATOM 209	1HB	ASN	A	17	-0.365	-1.060	-9.957	1.00	0.00
ATOM 210	2HB	ASN	A	17	-1.337	-2.528	-9.902	1.00	0.00
ATOM 211	1HD2	ASN	A	17	-1.537	0.989	-9.714	1.00	0.00
ATOM 212	2HD2	ASN	A	17	-3.121	1.114	-10.395	1.00	0.00
ATOM 213	N	PHE	A	18	-1.204	-3.730	-7.076	1.00	0.00
ATOM 214	CA	PHE	A	18	-0.628	-4.976	-6.584	1.00	0.00
ATOM 215	C	PHE	A	18	-1.727	-5.956	-6.183	1.00	0.00
ATOM 216	O	PHE	A	18	-2.509	-5.688	-5.271	1.00	0.00

ATOM 217	CB	PHE A	18	0.301	-4.708	-5.397	1.00	0.00
ATOM 218	CG	PHE A	18	-0.410	-4.202	-4.173	1.00	0.00
ATOM 219	CD1	PHE A	18	-0.634	-5.040	-3.092	1.00	0.00
ATOM 220	CD2	PHE A	18	-0.851	-2.891	-4.105	1.00	0.00
ATOM 221	CE1	PHE A	18	-1.286	-4.577	-1.965	1.00	0.00
ATOM 222	CE2	PHE A	18	-1.503	-2.423	-2.981	1.00	0.00
ATOM 223	CZ	PHE A	18	-1.722	-3.268	-1.909	1.00	0.00
ATOM 224	H	PHE A	18	-2.178	-3.620	-7.070	1.00	0.00
ATOM 225	HA	PHE A	18	-0.052	-5.412	-7.387	1.00	0.00
ATOM 226	1HB	PHE A	18	0.806	-5.624	-5.131	1.00	0.00
ATOM 227	2HB	PHE A	18	1.035	-3.969	-5.685	1.00	0.00
ATOM 228	HD1	PHE A	18	-0.293	-6.064	-3.134	1.00	0.00
ATOM 229	HD2	PHE A	18	-0.681	-2.230	-4.942	1.00	0.00
ATOM 230	HE1	PHE A	18	-1.456	-5.239	-1.128	1.00	0.00
ATOM 231	HE2	PHE A	18	-1.843	-1.399	-2.939	1.00	0.00
ATOM 232	HZ	PHE A	18	-2.232	-2.904	-1.028	1.00	0.00
ATOM 233	N	THR A	19	-1.785	-7.089	-6.876	1.00	0.00
ATOM 234	CA	THR A	19	-2.792	-8.106	-6.596	1.00	0.00
ATOM 235	C	THR A	19	-2.442	-8.901	-5.344	1.00	0.00
ATOM 236	O	THR A	19	-1.283	-9.247	-5.118	1.00	0.00
ATOM 237	CB	THR A	19	-2.936	-9.052	-7.789	1.00	0.00
ATOM 238	OG1	THR A	19	-3.233	-8.328	-8.969	1.00	0.00
ATOM 239	CG2	THR A	19	-4.020	-10.091	-7.601	1.00	0.00
ATOM 240	H	THR A	19	-1.137	-7.243	-7.595	1.00	0.00
ATOM 241	HA	THR A	19	-3.733	-7.602	-6.434	1.00	0.00
ATOM 242	HB	THR A	19	-2.000	-9.572	-7.936	1.00	0.00
ATOM 243	HG1	THR A	19	-2.499	-7.749	-9.184	1.00	0.00

ATOM 244	1HG2	THR	A	19	-4.837	-9.662	-7.042	1.00	0.00
ATOM 245	2HG2	THR	A	19	-3.618	-10.936	-7.060	1.00	0.00
ATOM 246	3HG2	THR	A	19	-4.376	-10.419	-8.567	1.00	0.00
ATOM 247	N	ILE	A	20	-3.457	-9.191	-4.533	1.00	0.00
ATOM 248	CA	ILE	A	20	-3.262	-9.951	-3.304	1.00	0.00
ATOM 249	C	ILE	A	20	-3.769	-11.381	-3.460	1.00	0.00
ATOM 250	O	ILE	A	20	-4.971	-11.634	-3.398	1.00	0.00
ATOM 251	CB	ILE	A	20	-3.983	-9.292	-2.113	1.00	0.00
ATOM 252	CG1	ILE	A	20	-3.649	-7.800	-2.045	1.00	0.00
ATOM 253	CG2	ILE	A	20	-3.602	-9.986	-0.814	1.00	0.00
ATOM 254	CD1	ILE	A	20	-4.621	-7.001	-1.204	1.00	0.00
ATOM 255	H	ILE	A	20	-4.358	-8.890	-4.771	1.00	0.00
ATOM 256	HA	ILE	A	20	-2.204	-9.976	-3.091	1.00	0.00
ATOM 257	HB	ILE	A	20	-5.046	-9.409	-2.255	1.00	0.00
ATOM 258	1HG1	ILE	A	20	-2.664	-7.678	-1.618	1.00	0.00
ATOM 259	2HG1	ILE	A	20	-3.657	-7.389	-3.044	1.00	0.00
ATOM 260	1HG2	ILE	A	20	-2.810	-9.433	-0.330	1.00	0.00
ATOM 261	2HG2	ILE	A	20	-3.263	-10.989	-1.027	1.00	0.00
ATOM 262	3HG2	ILE	A	20	-4.462	-10.027	-0.162	1.00	0.00
ATOM 263	1HD1	ILE	A	20	-4.125	-6.126	-0.813	1.00	0.00
ATOM 264	2HD1	ILE	A	20	-4.974	-7.611	-0.385	1.00	0.00
ATOM 265	3HD1	ILE	A	20	-5.460	-6.698	-1.814	1.00	0.00
ATOM 266	N	THR	A	21	-2.843	-12.312	-3.665	1.00	0.00
ATOM 267	CA	THR	A	21	-3.194	-13.717	-3.831	1.00	0.00
ATOM 268	C	THR	A	21	-3.937	-14.245	-2.607	1.00	0.00
ATOM 269	O	THR	A	21	-4.743	-15.170	-2.709	1.00	0.00
ATOM 270	CB	THR	A	21	-1.937	-14.552	-4.078	1.00	0.00

ATOM 271	OG1	THR A	21	-0.887	-14.141	-3.221	1.00	0.00
ATOM 272	CG2	THR A	21	-1.430	-14.463	-5.502	1.00	0.00
ATOM 273	H	THR A	21	-1.900	-12.047	-3.706	1.00	0.00
ATOM 274	HA	THR A	21	-3.842	-13.796	-4.691	1.00	0.00
ATOM 275	HB	THR A	21	-2.159	-15.588	-3.870	1.00	0.00
ATOM 276	HG1	THR A	21	-1.199	-14.132	-2.313	1.00	0.00
ATOM 277	1HG2	THR A	21	-2.248	-14.206	-6.159	1.00	0.00
ATOM 278	2HG2	THR A	21	-1.017	-15.417	-5.796	1.00	0.00
ATOM 279	3HG2	THR A	21	-0.664	-13.705	-5.564	1.00	0.00
ATOM 280	N	ASN A	22	-3.658	-13.654	-1.449	1.00	0.00
ATOM 281	CA	ASN A	22	-4.297	-14.067	-0.206	1.00	0.00
ATOM 282	C	ASN A	22	-5.754	-13.613	-0.159	1.00	0.00
ATOM 283	O	ASN A	22	-6.619	-14.326	0.347	1.00	0.00
ATOM 284	CB	ASN A	22	-3.536	-13.502	0.995	1.00	0.00
ATOM 285	CG	ASN A	22	-3.706	-14.350	2.240	1.00	0.00
ATOM 286	OD1	ASN A	22	-3.631	-15.578	2.184	1.00	0.00
ATOM 287	ND2	ASN A	22	-3.936	-13.698	3.374	1.00	0.00
ATOM 288	H	ASN A	22	-3.005	-12.924	-1.430	1.00	0.00
ATOM 289	HA	ASN A	22	-4.269	-15.146	-0.161	1.00	0.00
ATOM 290	1HB	ASN A	22	-2.484	-13.454	0.755	1.00	0.00
ATOM 291	2HB	ASN A	22	-3.898	-12.507	1.207	1.00	0.00
ATOM 292	1HD2	ASN A	22	-3.983	-12.720	3.344	1.00	0.00
ATOM 293	2HD2	ASN A	22	-4.049	-14.222	4.194	1.00	0.00
ATOM 294	N	LEU A	23	-6.017	-12.422	-0.689	1.00	0.00
ATOM 295	CA	LEU A	23	-7.369	-11.875	-0.706	1.00	0.00
ATOM 296	C	LEU A	23	-8.125	-12.328	-1.955	1.00	0.00
ATOM 297	O	LEU A	23	-7.819	-11.892	-3.064	1.00	0.00

ATOM 298	CB	LEU A	23	-7.321	-10.347	-0.652	1.00	0.00
ATOM 299	CG	LEU A	23	-8.551	-9.681	-0.032	1.00	0.00
ATOM 300	CD1	LEU A	23	-9.783	-9.936	-0.886	1.00	0.00
ATOM 301	CD2	LEU A	23	-8.768	-10.182	1.387	1.00	0.00
ATOM 302	H	LEU A	23	-5.284	-11.900	-1.076	1.00	0.00
ATOM 303	HA	LEU A	23	-7.884	-12.239	0.170	1.00	0.00
ATOM 304	1HB	LEU A	23	-6.452	-10.055	-0.081	1.00	0.00
ATOM 305	2HB	LEU A	23	-7.210	-9.975	-1.660	1.00	0.00
ATOM 306	HG	LEU A	23	-8.390	-8.612	0.011	1.00	0.00
ATOM 307	1HD1	LEU A	23	-9.481	-10.144	-1.901	1.00	0.00
ATOM 308	2HD1	LEU A	23	-10.419	-9.063	-0.870	1.00	0.00
ATOM 309	3HD1	LEU A	23	-10.325	-10.783	-0.490	1.00	0.00
ATOM 310	1HD2	LEU A	23	-9.531	-10.948	1.386	1.00	0.00
ATOM 311	2HD2	LEU A	23	-9.084	-9.361	2.015	1.00	0.00
ATOM 312	3HD2	LEU A	23	-7.846	-10.593	1.769	1.00	0.00
ATOM 313	N	PRO A	24	-9.128	-13.212	-1.794	1.00	0.00
ATOM 314	CA	PRO A	24	-9.921	-13.716	-2.921	1.00	0.00
ATOM 315	C	PRO A	24	-10.922	-12.685	-3.431	1.00	0.00
ATOM 316	O	PRO A	24	-11.079	-11.614	-2.846	1.00	0.00
ATOM 317	CB	PRO A	24	-10.648	-14.918	-2.324	1.00	0.00
ATOM 318	CG	PRO A	24	-10.791	-14.589	-0.879	1.00	0.00
ATOM 319	CD	PRO A	24	-9.569	-13.791	-0.509	1.00	0.00
ATOM 320	HA	PRO A	24	-9.290	-14.039	-3.735	1.00	0.00
ATOM 321	1HB	PRO A	24	-11.611	-15.034	-2.802	1.00	0.00
ATOM 322	2HB	PRO A	24	-10.057	-15.810	-2.469	1.00	0.00
ATOM 323	1HG	PRO A	24	-11.684	-14.001	-0.723	1.00	0.00
ATOM 324	2HG	PRO A	24	-10.834	-15.498	-0.297	1.00	0.00

ATOM 325	1HD	PRO	A	24	-9.825	-13.013	0.195	1.00	0.00
ATOM 326	2HD	PRO	A	24	-8.808	-14.438	-0.097	1.00	0.00
ATOM 327	N	TYR	A	25	-11.598	-13.016	-4.527	1.00	0.00
ATOM 328	CA	TYR	A	25	-12.585	-12.120	-5.117	1.00	0.00
ATOM 329	C	TYR	A	25	-13.943	-12.806	-5.235	1.00	0.00
ATOM 330	O	TYR	A	25	-14.175	-13.591	-6.154	1.00	0.00
ATOM 331	CB	TYR	A	25	-12.117	-11.650	-6.496	1.00	0.00
ATOM 332	CG	TYR	A	25	-12.713	-10.327	-6.920	1.00	0.00
ATOM 333	CD1	TYR	A	25	-11.912	-9.204	-7.084	1.00	0.00
ATOM 334	CD2	TYR	A	25	-14.076	-10.202	-7.158	1.00	0.00
ATOM 335	CE1	TYR	A	25	-12.453	-7.993	-7.472	1.00	0.00
ATOM 336	CE2	TYR	A	25	-14.624	-8.994	-7.546	1.00	0.00
ATOM 337	CZ	TYR	A	25	-13.809	-7.894	-7.702	1.00	0.00
ATOM 338	OH	TYR	A	25	-14.351	-6.690	-8.088	1.00	0.00
ATOM 339	H	TYR	A	25	-11.428	-13.885	-4.948	1.00	0.00
ATOM 340	HA	TYR	A	25	-12.684	-11.262	-4.469	1.00	0.00
ATOM 341	1HB	TYR	A	25	-11.043	-11.542	-6.486	1.00	0.00
ATOM 342	2HB	TYR	A	25	-12.392	-12.391	-7.232	1.00	0.00
ATOM 343	HD1	TYR	A	25	-10.850	-9.285	-6.904	1.00	0.00
ATOM 344	HD2	TYR	A	25	-14.712	-11.066	-7.034	1.00	0.00
ATOM 345	HE1	TYR	A	25	-11.814	-7.131	-7.594	1.00	0.00
ATOM 346	HE2	TYR	A	25	-15.686	-8.917	-7.726	1.00	0.00
ATOM 347	HH	TYR	A	25	-14.536	-6.157	-7.312	1.00	0.00
ATOM 348	N	SER	A	26	-14.837	-12.501	-4.300	1.00	0.00
ATOM 349	CA	SER	A	26	-16.172	-13.087	-4.300	1.00	0.00
ATOM 350	C	SER	A	26	-17.195	-12.109	-4.868	1.00	0.00
ATOM 351	O	SER	A	26	-16.853	-10.990	-5.250	1.00	0.00



ATOM 352	CB	SER A	26	-16.573	-13.498	-2.882	1.00	0.00
ATOM 353	OG	SER A	26	-16.897	-12.364	-2.095	1.00	0.00
ATOM 354	H	SER A	26	-14.593	-11.867	-3.593	1.00	0.00
ATOM 355	HA	SER A	26	-16.148	-13.966	-4.926	1.00	0.00
ATOM 356	1HB	SER A	26	-17.436	-14.145	-2.927	1.00	0.00
ATOM 357	2HB	SER A	26	-15.753	-14.023	-2.416	1.00	0.00
ATOM 358	HG	SER A	26	-17.706	-12.533	-1.606	1.00	0.00
ATOM 359	N	GLN A	27	-18.452	-12.539	-4.921	1.00	0.00
ATOM 360	CA	GLN A	27	-19.525	-11.700	-5.443	1.00	0.00
ATOM 361	C	GLN A	27	-19.765	-10.495	-4.537	1.00	0.00
ATOM 362	O	GLN A	27	-20.168	-9.428	-5.002	1.00	0.00
ATOM 363	CB	GLN A	27	-20.814	-12.515	-5.583	1.00	0.00
ATOM 364	CG	GLN A	27	-21.493	-12.350	-6.933	1.00	0.00
ATOM 365	CD	GLN A	27	-22.464	-11.187	-6.958	1.00	0.00
ATOM 366	OE1	GLN A	27	-22.223	-10.175	-7.617	1.00	0.00
ATOM 367	NE2	GLN A	27	-23.572	-11.324	-6.238	1.00	0.00
ATOM 368	H	GLN A	27	-18.662	-13.441	-4.601	1.00	0.00
ATOM 369	HA	GLN A	27	-19.225	-11.348	-6.418	1.00	0.00
ATOM 370	1HB	GLN A	27	-20.580	-13.561	-5.447	1.00	0.00
ATOM 371	2HB	GLN A	27	-21.508	-12.208	-4.815	1.00	0.00
ATOM 372	1HG	GLN A	27	-20.737	-12.183	-7.685	1.00	0.00
ATOM 373	2HG	GLN A	27	-22.033	-13.257	-7.162	1.00	0.00
ATOM 374	1HE2	GLN A	27	-23.698	-12.158	-5.738	1.00	0.00
ATOM 375	2HE2	GLN A	27	-24.218	-10.588	-6.236	1.00	0.00
ATOM 376	N	ASP A	28	-19.515	-10.672	-3.244	1.00	0.00
ATOM 377	CA	ASP A	28	-19.703	-9.599	-2.274	1.00	0.00
ATOM 378	C	ASP A	28	-18.839	-8.391	-2.622	1.00	0.00

ATOM 379	O	ASP A	28	-19.299	-7.250	-2.569	1.00	0.00
ATOM 380	CB	ASP A	28	-19.366	-10.091	-0.866	1.00	0.00
ATOM 381	CG	ASP A	28	-20.172	-11.315	-0.473	1.00	0.00
ATOM 382	OD1	ASP A	28	-21.416	-11.263	-0.573	1.00	0.00
ATOM 383	OD2	ASP A	28	-19.559	-12.323	-0.065	1.00	0.00
ATOM 384	H	ASP A	28	-19.195	-11.546	-2.934	1.00	0.00
ATOM 385	HA	ASP A	28	-20.741	-9.305	-2.304	1.00	0.00
ATOM 386	1HB	ASP A	28	-18.318	-10.346	-0.821	1.00	0.00
ATOM 387	2HB	ASP A	28	-19.573	-9.304	-0.156	1.00	0.00
ATOM 388	N	ILE A	29	-17.586	-8.650	-2.979	1.00	0.00
ATOM 389	CA	ILE A	29	-16.657	-7.584	-3.338	1.00	0.00
ATOM 390	C	ILE A	29	-17.128	-6.829	-4.580	1.00	0.00
ATOM 391	O	ILE A	29	-16.678	-5.716	-4.847	1.00	0.00
ATOM 392	CB	ILE A	29	-15.240	-8.134	-3.591	1.00	0.00
ATOM 393	CG1	ILE A	29	-14.794	-9.017	-2.423	1.00	0.00
ATOM 394	CG2	ILE A	29	-14.257	-6.992	-3.806	1.00	0.00
ATOM 395	CD1	ILE A	29	-14.838	-8.314	-1.083	1.00	0.00
ATOM 396	H	ILE A	29	-17.278	-9.580	-3.004	1.00	0.00
ATOM 397	HA	ILE A	29	-16.608	-6.894	-2.508	1.00	0.00
ATOM 398	HB	ILE A	29	-15.265	-8.729	-4.492	1.00	0.00
ATOM 399	1HG1	ILE A	29	-15.438	-9.881	-2.365	1.00	0.00
ATOM 400	2HG1	ILE A	29	-13.778	-9.342	-2.593	1.00	0.00
ATOM 401	1HG2	ILE A	29	-14.684	-6.074	-3.432	1.00	0.00
ATOM 402	2HG2	ILE A	29	-14.050	-6.889	-4.861	1.00	0.00
ATOM 403	3HG2	ILE A	29	-13.337	-7.203	-3.279	1.00	0.00
ATOM 404	1HD1	ILE A	29	-15.775	-8.534	-0.592	1.00	0.00
ATOM 405	2HD1	ILE A	29	-14.753	-7.248	-1.232	1.00	0.00

ATOM 406	3HD1	ILE	A	29	-14.020	-8.658	-0.467	1.00	0.00
ATOM 407	N	ALA	A	30	-18.036	-7.440	-5.336	1.00	0.00
ATOM 408	CA	ALA	A	30	-18.562	-6.819	-6.546	1.00	0.00
ATOM 409	C	ALA	A	30	-19.684	-5.835	-6.225	1.00	0.00
ATOM 410	O	ALA	A	30	-20.008	-4.966	-7.034	1.00	0.00
ATOM 411	CB	ALA	A	30	-19.056	-7.887	-7.512	1.00	0.00
ATOM 412	H	ALA	A	30	-18.359	-8.327	-5.076	1.00	0.00
ATOM 413	HA	ALA	A	30	-17.755	-6.284	-7.023	1.00	0.00
ATOM 414	1HB	ALA	A	30	-18.802	-7.602	-8.523	1.00	0.00
ATOM 415	2HB	ALA	A	30	-20.128	-7.983	-7.424	1.00	0.00
ATOM 416	3HB	ALA	A	30	-18.589	-8.831	-7.274	1.00	0.00
ATOM 417	N	GLN	A	31	-20.278	-5.977	-5.043	1.00	0.00
ATOM 418	CA	GLN	A	31	-21.364	-5.097	-4.625	1.00	0.00
ATOM 419	C	GLN	A	31	-21.040	-4.422	-3.292	1.00	0.00
ATOM 420	O	GLN	A	31	-21.011	-5.076	-2.249	1.00	0.00
ATOM 421	CB	GLN	A	31	-22.667	-5.890	-4.500	1.00	0.00
ATOM 422	CG	GLN	A	31	-23.403	-6.059	-5.819	1.00	0.00
ATOM 423	CD	GLN	A	31	-24.135	-4.801	-6.244	1.00	0.00
ATOM 424	OE1	GLN	A	31	-24.837	-4.178	-5.447	1.00	0.00
ATOM 425	NE2	GLN	A	31	-23.973	-4.420	-7.506	1.00	0.00
ATOM 426	H	GLN	A	31	-19.981	-6.688	-4.438	1.00	0.00
ATOM 427	HA	GLN	A	31	-21.487	-4.340	-5.382	1.00	0.00
ATOM 428	1HB	GLN	A	31	-22.442	-6.871	-4.110	1.00	0.00
ATOM 429	2HB	GLN	A	31	-23.322	-5.379	-3.810	1.00	0.00
ATOM 430	1HG	GLN	A	31	-22.688	-6.317	-6.586	1.00	0.00
ATOM 431	2HG	GLN	A	31	-24.123	-6.859	-5.715	1.00	0.00
ATOM 432	1HE2	GLN	A	31	-23.399	-4.964	-8.084	1.00	0.00

ATOM 433	2HE2	GLN	A	31	-24.435	-3.609	-7.807	1.00	0.00
ATOM 434	N	PRO	A	32	-20.794	-3.098	-3.304	1.00	0.00
ATOM 435	CA	PRO	A	32	-20.474	-2.345	-2.086	1.00	0.00
ATOM 436	C	PRO	A	32	-21.524	-2.532	-0.996	1.00	0.00
ATOM 437	O	PRO	A	32	-21.236	-2.372	0.191	1.00	0.00
ATOM 438	CB	PRO	A	32	-20.451	-0.888	-2.558	1.00	0.00
ATOM 439	CG	PRO	A	32	-20.162	-0.965	-4.017	1.00	0.00
ATOM 440	CD	PRO	A	32	-20.808	-2.233	-4.499	1.00	0.00
ATOM 441	HA	PRO	A	32	-19.503	-2.616	-1.698	1.00	0.00
ATOM 442	1HB	PRO	A	32	-21.411	-0.431	-2.368	1.00	0.00
ATOM 443	2HB	PRO	A	32	-19.678	-0.348	-2.031	1.00	0.00
ATOM 444	1HG	PRO	A	32	-20.589	-0.111	-4.521	1.00	0.00
ATOM 445	2HG	PRO	A	32	-19.095	-1.003	-4.178	1.00	0.00
ATOM 446	1HD	PRO	A	32	-21.819	-2.041	-4.825	1.00	0.00
ATOM 447	2HD	PRO	A	32	-20.229	-2.672	-5.298	1.00	0.00
ATOM 448	N	SER	A	33	-22.744	-2.870	-1.404	1.00	0.00
ATOM 449	CA	SER	A	33	-23.838	-3.078	-0.462	1.00	0.00
ATOM 450	C	SER	A	33	-23.473	-4.132	0.580	1.00	0.00
ATOM 451	O	SER	A	33	-23.934	-4.078	1.719	1.00	0.00
ATOM 452	CB	SER	A	33	-25.105	-3.501	-1.207	1.00	0.00
ATOM 453	OG	SER	A	33	-26.246	-3.396	-0.374	1.00	0.00
ATOM 454	H	SER	A	33	-22.912	-2.983	-2.363	1.00	0.00
ATOM 455	HA	SER	A	33	-24.024	-2.141	0.041	1.00	0.00
ATOM 456	1HB	SER	A	33	-25.243	-2.863	-2.067	1.00	0.00
ATOM 457	2HB	SER	A	33	-25.004	-4.526	-1.532	1.00	0.00
ATOM 458	HG	SER	A	33	-26.916	-2.865	-0.813	1.00	0.00
ATOM 459	N	THR	A	34	-22.642	-5.089	0.181	1.00	0.00

ATOM 460	CA	THR A	34	-22.215	-6.155	1.079	1.00	0.00
ATOM 461	C	THR A	34	-21.153	-5.654	2.053	1.00	0.00
ATOM 462	O	THR A	34	-20.571	-4.586	1.857	1.00	0.00
ATOM 463	CB	THR A	34	-21.672	-7.340	0.279	1.00	0.00
ATOM 464	OG1	THR A	34	-20.484	-6.981	-0.404	1.00	0.00
ATOM 465	CG2	THR A	34	-22.652	-7.867	-0.748	1.00	0.00
ATOM 466	H	THR A	34	-22.307	-5.078	-0.741	1.00	0.00
ATOM 467	HA	THR A	34	-23.078	-6.478	1.642	1.00	0.00
ATOM 468	HB	THR A	34	-21.441	-8.146	0.961	1.00	0.00
ATOM 469	HG1	THR A	34	-19.723	-7.235	0.123	1.00	0.00
ATOM 470	1HG2	THR A	34	-23.616	-8.012	-0.284	1.00	0.00
ATOM 471	2HG2	THR A	34	-22.294	-8.810	-1.135	1.00	0.00
ATOM 472	3HG2	THR A	34	-22.742	-7.157	-1.556	1.00	0.00
ATOM 473	N	THR A	35	-20.906	-6.431	3.103	1.00	0.00
ATOM 474	CA	THR A	35	-19.915	-6.066	4.108	1.00	0.00
ATOM 475	C	THR A	35	-18.510	-6.461	3.662	1.00	0.00
ATOM 476	O	THR A	35	-17.530	-5.802	4.007	1.00	0.00
ATOM 477	CB	THR A	35	-20.244	-6.733	5.444	1.00	0.00
ATOM 478	OG1	THR A	35	-21.602	-6.525	5.788	1.00	0.00
ATOM 479	CG2	THR A	35	-19.396	-6.227	6.591	1.00	0.00
ATOM 480	H	THR A	35	-21.403	-7.269	3.205	1.00	0.00
ATOM 481	HA	THR A	35	-19.950	-4.994	4.233	1.00	0.00
ATOM 482	HB	THR A	35	-20.076	-7.797	5.353	1.00	0.00
ATOM 483	HG1	THR A	35	-22.141	-7.220	5.402	1.00	0.00
ATOM 484	1HG2	THR A	35	-19.886	-5.383	7.055	1.00	0.00
ATOM 485	2HG2	THR A	35	-18.430	-5.922	6.218	1.00	0.00
ATOM 486	3HG2	THR A	35	-19.269	-7.014	7.319	1.00	0.00

ATOM 487	N	LYS A	36	-18.421	-7.542	2.894	1.00	0.00
ATOM 488	CA	LYS A	36	-17.136	-8.028	2.401	1.00	0.00
ATOM 489	C	LYS A	36	-16.391	-6.936	1.637	1.00	0.00
ATOM 490	O	LYS A	36	-15.161	-6.909	1.615	1.00	0.00
ATOM 491	CB	LYS A	36	-17.340	-9.247	1.499	1.00	0.00
ATOM 492	CG	LYS A	36	-16.092	-10.098	1.334	1.00	0.00
ATOM 493	CD	LYS A	36	-15.873	-11.007	2.533	1.00	0.00
ATOM 494	CE	LYS A	36	-14.429	-10.971	3.007	1.00	0.00
ATOM 495	NZ	LYS A	36	-13.477	-11.312	1.914	1.00	0.00
ATOM 496	H	LYS A	36	-19.238	-8.026	2.653	1.00	0.00
ATOM 497	HA	LYS A	36	-16.544	-8.320	3.255	1.00	0.00
ATOM 498	1HB	LYS A	36	-18.119	-9.866	1.920	1.00	0.00
ATOM 499	2HB	LYS A	36	-17.651	-8.909	0.522	1.00	0.00
ATOM 500	1HG	LYS A	36	-16.197	-10.706	0.449	1.00	0.00
ATOM 501	2HG	LYS A	36	-15.236	-9.446	1.226	1.00	0.00
ATOM 502	1HD	LYS A	36	-16.513	-10.685	3.341	1.00	0.00
ATOM 503	2HD	LYS A	36	-16.126	-12.020	2.254	1.00	0.00
ATOM 504	1HE	LYS A	36	-14.207	-9.977	3.368	1.00	0.00
ATOM 505	2HE	LYS A	36	-14.309	-11.680	3.812	1.00	0.00
ATOM 506	1HZ	LYS A	36	-13.123	-10.443	1.464	1.00	0.00
ATOM 507	2HZ	LYS A	36	-13.951	-11.892	1.194	1.00	0.00
ATOM 508	3HZ	LYS A	36	-12.670	-11.845	2.296	1.00	0.00
ATOM 509	N	TYR A	37	-17.145	-6.039	1.011	1.00	0.00
ATOM 510	CA	TYR A	37	-16.556	-4.946	0.247	1.00	0.00
ATOM 511	C	TYR A	37	-16.003	-3.868	1.174	1.00	0.00
ATOM 512	O	TYR A	37	-14.868	-3.420	1.014	1.00	0.00
ATOM 513	CB	TYR A	37	-17.595	-4.341	-0.700	1.00	0.00

ATOM 514	CG	TYR A	37	-17.082	-3.158	-1.492	1.00	0.00
ATOM 515	CD1	TYR A	37	-16.484	-3.336	-2.733	1.00	0.00
ATOM 516	CD2	TYR A	37	-17.197	-1.864	-0.999	1.00	0.00
ATOM 517	CE1	TYR A	37	-16.015	-2.260	-3.461	1.00	0.00
ATOM 518	CE2	TYR A	37	-16.731	-0.782	-1.721	1.00	0.00
ATOM 519	CZ	TYR A	37	-16.140	-0.985	-2.950	1.00	0.00
ATOM 520	OH	TYR A	37	-15.674	0.090	-3.672	1.00	0.00
ATOM 521	H	TYR A	37	-18.121	-6.112	1.066	1.00	0.00
ATOM 522	HA	TYR A	37	-15.744	-5.352	-0.337	1.00	0.00
ATOM 523	1HB	TYR A	37	-17.913	-5.096	-1.403	1.00	0.00
ATOM 524	2HB	TYR A	37	-18.447	-4.011	-0.124	1.00	0.00
ATOM 525	HD1	TYR A	37	-16.388	-4.336	-3.130	1.00	0.00
ATOM 526	HD2	TYR A	37	-17.659	-1.709	-0.035	1.00	0.00
ATOM 527	HE1	TYR A	37	-15.553	-2.419	-4.424	1.00	0.00
ATOM 528	HE2	TYR A	37	-16.829	0.216	-1.321	1.00	0.00
ATOM 529	HH	TYR A	37	-16.383	0.727	-3.792	1.00	0.00
ATOM 530	N	GLN A	38	-16.812	-3.456	2.144	1.00	0.00
ATOM 531	CA	GLN A	38	-16.404	-2.428	3.096	1.00	0.00
ATOM 532	C	GLN A	38	-15.307	-2.946	4.022	1.00	0.00
ATOM 533	O	GLN A	38	-14.351	-2.232	4.327	1.00	0.00
ATOM 534	CB	GLN A	38	-17.604	-1.961	3.921	1.00	0.00
ATOM 535	CG	GLN A	38	-18.383	-0.828	3.272	1.00	0.00
ATOM 536	CD	GLN A	38	-19.867	-0.893	3.573	1.00	0.00
ATOM 537	OE1	GLN A	38	-20.287	-0.736	4.719	1.00	0.00
ATOM 538	NE2	GLN A	38	-20.671	-1.125	2.542	1.00	0.00
ATOM 539	H	GLN A	38	-17.706	-3.850	2.221	1.00	0.00
ATOM 540	HA	GLN A	38	-16.017	-1.591	2.534	1.00	0.00

ATOM 541	1HB	GLN A	38	-18.275	-2.795	4.062	1.00	0.00
ATOM 542	2HB	GLN A	38	-17.255	-1.623	4.885	1.00	0.00
ATOM 543	1HG	GLN A	38	-17.998	0.112	3.638	1.00	0.00
ATOM 544	2HG	GLN A	38	-18.244	-0.881	2.201	1.00	0.00
ATOM 545	1HE2	GLN A	38	-20.266	-1.239	1.656	1.00	0.00
ATOM 546	2HE2	GLN A	38	-21.635	-1.172	2.708	1.00	0.00
ATOM 547	N	GLN A	39	-15.451	-4.190	4.466	1.00	0.00
ATOM 548	CA	GLN A	39	-14.471	-4.800	5.358	1.00	0.00
ATOM 549	C	GLN A	39	-13.092	-4.846	4.706	1.00	0.00
ATOM 550	O	GLN A	39	-12.134	-4.265	5.214	1.00	0.00
ATOM 551	CB	GLN A	39	-14.915	-6.212	5.749	1.00	0.00
ATOM 552	CG	GLN A	39	-15.418	-6.317	7.180	1.00	0.00
ATOM 553	CD	GLN A	39	-15.302	-7.723	7.737	1.00	0.00
ATOM 554	OE1	GLN A	39	-14.420	-8.012	8.546	1.00	0.00
ATOM 555	NE2	GLN A	39	-16.195	-8.605	7.306	1.00	0.00
ATOM 556	H	GLN A	39	-16.233	-4.710	4.189	1.00	0.00
ATOM 557	HA	GLN A	39	-14.412	-4.192	6.249	1.00	0.00
ATOM 558	1HB	GLN A	39	-15.710	-6.523	5.088	1.00	0.00
ATOM 559	2HB	GLN A	39	-14.080	-6.887	5.635	1.00	0.00
ATOM 560	1HG	GLN A	39	-14.837	-5.652	7.802	1.00	0.00
ATOM 561	2HG	GLN A	39	-16.455	-6.019	7.207	1.00	0.00
ATOM 562	1HE2	GLN A	39	-16.869	-8.304	6.661	1.00	0.00
ATOM 563	2HE2	GLN A	39	-16.144	-9.522	7.650	1.00	0.00
ATOM 564	N	THR A	40	-13.001	-5.542	3.577	1.00	0.00
ATOM 565	CA	THR A	40	-11.739	-5.666	2.856	1.00	0.00
ATOM 566	C	THR A	40	-11.225	-4.298	2.419	1.00	0.00
ATOM 567	O	THR A	40	-10.046	-3.984	2.586	1.00	0.00



ATOM 568	CB	THR A	40	-11.911	-6.572	1.637	1.00	0.00
ATOM 569	OG1	THR A	40	-12.696	-7.706	1.961	1.00	0.00
ATOM 570	CG2	THR A	40	-10.598	-7.069	1.071	1.00	0.00
ATOM 571	H	THR A	40	-13.800	-5.985	3.221	1.00	0.00
ATOM 572	HA	THR A	40	-11.017	-6.111	3.525	1.00	0.00
ATOM 573	HB	THR A	40	-12.419	-6.019	0.859	1.00	0.00
ATOM 574	HG1	THR A	40	-13.484	-7.718	1.413	1.00	0.00
ATOM 575	1HG2	THR A	40	-10.601	-6.948	-0.003	1.00	0.00
ATOM 576	2HG2	THR A	40	-10.473	-8.114	1.316	1.00	0.00
ATOM 577	3HG2	THR A	40	-9.785	-6.500	1.495	1.00	0.00
ATOM 578	N	LYS A	41	-12.116	-3.489	1.855	1.00	0.00
ATOM 579	CA	LYS A	41	-11.752	-2.154	1.391	1.00	0.00
ATOM 580	C	LYS A	41	-11.174	-1.318	2.528	1.00	0.00
ATOM 581	O	LYS A	41	-10.246	-0.536	2.326	1.00	0.00
ATOM 582	CB	LYS A	41	-12.973	-1.450	0.795	1.00	0.00
ATOM 583	CG	LYS A	41	-12.661	-0.081	0.214	1.00	0.00
ATOM 584	CD	LYS A	41	-13.682	0.322	-0.839	1.00	0.00
ATOM 585	CE	LYS A	41	-13.451	1.744	-1.326	1.00	0.00
ATOM 586	NZ	LYS A	41	-13.483	1.833	-2.812	1.00	0.00
ATOM 587	H	LYS A	41	-13.040	-3.797	1.748	1.00	0.00
ATOM 588	HA	LYS A	41	-11.001	-2.264	0.623	1.00	0.00
ATOM 589	1HB	LYS A	41	-13.381	-2.067	0.008	1.00	0.00
ATOM 590	2HB	LYS A	41	-13.717	-1.329	1.568	1.00	0.00
ATOM 591	1HG	LYS A	41	-12.673	0.649	1.010	1.00	0.00
ATOM 592	2HG	LYS A	41	-11.681	-0.107	-0.239	1.00	0.00
ATOM 593	1HD	LYS A	41	-13.604	-0.352	-1.678	1.00	0.00
ATOM 594	2HD	LYS A	41	-14.671	0.253	-0.411	1.00	0.00

ATOM 595	1HE	LYS	A	41	-14.224	2.379	-0.921	1.00	0.00
ATOM 596	2HE	LYS	A	41	-12.487	2.080	-0.973	1.00	0.00
ATOM 597	1HZ	LYS	A	41	-12.780	2.524	-3.144	1.00	0.00
ATOM 598	2HZ	LYS	A	41	-14.424	2.133	-3.133	1.00	0.00
ATOM 599	3HZ	LYS	A	41	-13.265	0.906	-3.230	1.00	0.00
ATOM 600	N	ARG	A	42	-11.729	-1.488	3.724	1.00	0.00
ATOM 601	CA	ARG	A	42	-11.268	-0.747	4.893	1.00	0.00
ATOM 602	C	ARG	A	42	-10.036	-1.406	5.506	1.00	0.00
ATOM 603	O	ARG	A	42	-9.194	-0.733	6.102	1.00	0.00
ATOM 604	CB	ARG	A	42	-12.383	-0.654	5.936	1.00	0.00
ATOM 605	CG	ARG	A	42	-12.156	0.433	6.972	1.00	0.00
ATOM 606	CD	ARG	A	42	-12.597	1.794	6.458	1.00	0.00
ATOM 607	NE	ARG	A	42	-12.154	2.880	7.330	1.00	0.00
ATOM 608	CZ	ARG	A	42	-10.907	3.346	7.358	1.00	0.00
ATOM 609	NH1	ARG	A	42	-9.978	2.826	6.566	1.00	0.00
ATOM 610	NH2	ARG	A	42	-10.588	4.335	8.182	1.00	0.00
ATOM 611	H	ARG	A	42	-12.466	-2.126	3.823	1.00	0.00
ATOM 612	HA	ARG	A	42	-11.006	0.249	4.570	1.00	0.00
ATOM 613	1HB	ARG	A	42	-13.316	-0.452	5.432	1.00	0.00
ATOM 614	2HB	ARG	A	42	-12.459	-1.601	6.450	1.00	0.00
ATOM 615	1HG	ARG	A	42	-12.722	0.196	7.860	1.00	0.00
ATOM 616	2HG	ARG	A	42	-11.104	0.473	7.214	1.00	0.00
ATOM 617	1HD	ARG	A	42	-12.180	1.944	5.472	1.00	0.00
ATOM 618	2HD	ARG	A	42	-13.676	1.810	6.398	1.00	0.00
ATOM 619	HE	ARG	A	42	-12.820	3.282	7.925	1.00	0.00
ATOM 620	1HH1	ARG	A	42	-10.212	2.080	5.942	1.00	0.00
ATOM 621	2HH1	ARG	A	42	-9.044	3.181	6.592	1.00	0.00

ATOM 622	1HH2	ARG	A	42	-11.284	4.731	8.782	1.00	0.00
ATOM 623	2HH2	ARG	A	42	-9.652	4.685	8.204	1.00	0.00
ATOM 624	N	SER	A	43	-9.937	-2.722	5.359	1.00	0.00
ATOM 625	CA	SER	A	43	-8.808	-3.469	5.901	1.00	0.00
ATOM 626	C	SER	A	43	-7.521	-3.135	5.152	1.00	0.00
ATOM 627	O	SER	A	43	-6.518	-2.763	5.759	1.00	0.00
ATOM 628	CB	SER	A	43	-9.079	-4.973	5.822	1.00	0.00
ATOM 629	OG	SER	A	43	-8.566	-5.644	6.961	1.00	0.00
ATOM 630	H	SER	A	43	-10.640	-3.204	4.875	1.00	0.00
ATOM 631	HA	SER	A	43	-8.691	-3.188	6.936	1.00	0.00
ATOM 632	1HB	SER	A	43	-10.145	-5.142	5.772	1.00	0.00
ATOM 633	2HB	SER	A	43	-8.609	-5.377	4.938	1.00	0.00
ATOM 634	HG	SER	A	43	-8.488	-6.582	6.771	1.00	0.00
ATOM 635	N	ILE	A	44	-7.558	-3.271	3.830	1.00	0.00
ATOM 636	CA	ILE	A	44	-6.394	-2.984	3.000	1.00	0.00
ATOM 637	C	ILE	A	44	-5.970	-1.524	3.134	1.00	0.00
ATOM 638	O	ILE	A	44	-4.783	-1.222	3.253	1.00	0.00
ATOM 639	CB	ILE	A	44	-6.671	-3.296	1.515	1.00	0.00
ATOM 640	CG1	ILE	A	44	-7.179	-4.730	1.357	1.00	0.00
ATOM 641	CG2	ILE	A	44	-5.414	-3.081	0.684	1.00	0.00
ATOM 642	CD1	ILE	A	44	-7.475	-5.113	-0.076	1.00	0.00
ATOM 643	H	ILE	A	44	-8.388	-3.572	3.403	1.00	0.00
ATOM 644	HA	ILE	A	44	-5.583	-3.615	3.334	1.00	0.00
ATOM 645	HB	ILE	A	44	-7.427	-2.612	1.161	1.00	0.00
ATOM 646	1HG1	ILE	A	44	-6.434	-5.413	1.736	1.00	0.00
ATOM 647	2HG1	ILE	A	44	-8.089	-4.848	1.928	1.00	0.00
ATOM 648	1HG2	ILE	A	44	-5.645	-3.222	-0.362	1.00	0.00

ATOM 649	2HG2	ILE	A	44	-4.658	-3.791	0.984	1.00	0.00
ATOM 650	3HG2	ILE	A	44	-5.047	-2.077	0.838	1.00	0.00
ATOM 651	1HD1	ILE	A	44	-8.533	-5.010	-0.265	1.00	0.00
ATOM 652	2HD1	ILE	A	44	-7.177	-6.138	-0.244	1.00	0.00
ATOM 653	3HD1	ILE	A	44	-6.926	-4.465	-0.743	1.00	0.00
ATOM 654	N	GLU	A	45	-6.947	-0.624	3.114	1.00	0.00
ATOM 655	CA	GLU	A	45	-6.673	0.803	3.233	1.00	0.00
ATOM 656	C	GLU	A	45	-5.989	1.119	4.559	1.00	0.00
ATOM 657	O	GLU	A	45	-5.202	2.062	4.654	1.00	0.00
ATOM 658	CB	GLU	A	45	-7.969	1.605	3.110	1.00	0.00
ATOM 659	CG	GLU	A	45	-7.783	2.965	2.457	1.00	0.00
ATOM 660	CD	GLU	A	45	-7.656	4.086	3.471	1.00	0.00
ATOM 661	OE1	GLU	A	45	-8.281	3.985	4.547	1.00	0.00
ATOM 662	OE2	GLU	A	45	-6.930	5.062	3.189	1.00	0.00
ATOM 663	H	GLU	A	45	-7.874	-0.927	3.016	1.00	0.00
ATOM 664	HA	GLU	A	45	-6.011	1.081	2.426	1.00	0.00
ATOM 665	1HB	GLU	A	45	-8.674	1.040	2.519	1.00	0.00
ATOM 666	2HB	GLU	A	45	-8.380	1.756	4.097	1.00	0.00
ATOM 667	1HG	GLU	A	45	-6.887	2.942	1.855	1.00	0.00
ATOM 668	2HG	GLU	A	45	-8.636	3.166	1.825	1.00	0.00
ATOM 669	N	ASN	A	46	-6.294	0.327	5.581	1.00	0.00
ATOM 670	CA	ASN	A	46	-5.708	0.524	6.902	1.00	0.00
ATOM 671	C	ASN	A	46	-4.266	0.025	6.940	1.00	0.00
ATOM 672	O	ASN	A	46	-3.380	0.700	7.464	1.00	0.00
ATOM 673	CB	ASN	A	46	-6.540	-0.198	7.964	1.00	0.00
ATOM 674	CG	ASN	A	46	-6.793	0.664	9.187	1.00	0.00
ATOM 675	OD1	ASN	A	46	-6.021	1.573	9.489	1.00	0.00

ATOM 676	ND2	ASN	A	46	-7.878	0.380	9.897	1.00	0.00
ATOM 677	H	ASN	A	46	-6.929	-0.408	5.445	1.00	0.00
ATOM 678	HA	ASN	A	46	-5.715	1.583	7.112	1.00	0.00
ATOM 679	1HB	ASN	A	46	-7.494	-0.475	7.540	1.00	0.00
ATOM 680	2HB	ASN	A	46	-6.019	-1.091	8.278	1.00	0.00
ATOM 681	1HD2	ASN	A	46	-8.447	-0.360	9.597	1.00	0.00
ATOM 682	2HD2	ASN	A	46	-8.066	0.921	10.691	1.00	0.00
ATOM 683	N	ALA	A	47	-4.041	-1.160	6.384	1.00	0.00
ATOM 684	CA	ALA	A	47	-2.708	-1.749	6.354	1.00	0.00
ATOM 685	C	ALA	A	47	-1.722	-0.844	5.621	1.00	0.00
ATOM 686	O	ALA	A	47	-0.574	-0.695	6.037	1.00	0.00
ATOM 687	CB	ALA	A	47	-2.752	-3.123	5.702	1.00	0.00
ATOM 688	H	ALA	A	47	-4.789	-1.649	5.983	1.00	0.00
ATOM 689	HA	ALA	A	47	-2.376	-1.871	7.375	1.00	0.00
ATOM 690	1HB	ALA	A	47	-1.770	-3.377	5.332	1.00	0.00
ATOM 691	2HB	ALA	A	47	-3.455	-3.109	4.882	1.00	0.00
ATOM 692	3HB	ALA	A	47	-3.064	-3.856	6.430	1.00	0.00
ATOM 693	N	LEU	A	48	-2.179	-0.245	4.527	1.00	0.00
ATOM 694	CA	LEU	A	48	-1.337	0.644	3.735	1.00	0.00
ATOM 695	C	LEU	A	48	-1.034	1.931	4.497	1.00	0.00
ATOM 696	O	LEU	A	48	0.048	2.503	4.366	1.00	0.00
ATOM 697	CB	LEU	A	48	-2.016	0.975	2.405	1.00	0.00
ATOM 698	CG	LEU	A	48	-1.912	-0.115	1.337	1.00	0.00
ATOM 699	CD1	LEU	A	48	-2.690	0.282	0.092	1.00	0.00
ATOM 700	CD2	LEU	A	48	-0.456	-0.387	0.994	1.00	0.00
ATOM 701	H	LEU	A	48	-3.104	-0.403	4.245	1.00	0.00
ATOM 702	HA	LEU	A	48	-0.408	0.131	3.537	1.00	0.00

ATOM 703	1HB	LEU	A	48	-3.062	1.165	2.596	1.00	0.00
ATOM 704	2HB	LEU	A	48	-1.570	1.876	2.011	1.00	0.00
ATOM 705	HG	LEU	A	48	-2.343	-1.028	1.721	1.00	0.00
ATOM 706	1HD1	LEU	A	48	-3.631	0.725	0.380	1.00	0.00
ATOM 707	2HD1	LEU	A	48	-2.876	-0.595	-0.512	1.00	0.00
ATOM 708	3HD1	LEU	A	48	-2.115	0.995	-0.479	1.00	0.00
ATOM 709	1HD2	LEU	A	48	-0.403	-1.034	0.130	1.00	0.00
ATOM 710	2HD2	LEU	A	48	0.028	-0.867	1.832	1.00	0.00
ATOM 711	3HD2	LEU	A	48	0.044	0.545	0.777	1.00	0.00
ATOM 712	N	ASN	A	49	-1.998	2.380	5.295	1.00	0.00
ATOM 713	CA	ASN	A	49	-1.836	3.599	6.079	1.00	0.00
ATOM 714	C	ASN	A	49	-0.668	3.470	7.052	1.00	0.00
ATOM 715	O	ASN	A	49	0.155	4.378	7.175	1.00	0.00
ATOM 716	CB	ASN	A	49	-3.123	3.913	6.844	1.00	0.00
ATOM 717	CG	ASN	A	49	-3.481	5.385	6.794	1.00	0.00
ATOM 718	OD1	ASN	A	49	-3.017	6.177	7.614	1.00	0.00
ATOM 719	ND2	ASN	A	49	-4.312	5.758	5.827	1.00	0.00
ATOM 720	H	ASN	A	49	-2.838	1.880	5.357	1.00	0.00
ATOM 721	HA	ASN	A	49	-1.629	4.407	5.394	1.00	0.00
ATOM 722	1HB	ASN	A	49	-3.937	3.348	6.413	1.00	0.00
ATOM 723	2HB	ASN	A	49	-3.000	3.625	7.878	1.00	0.00
ATOM 724	1HD2	ASN	A	49	-4.641	5.072	5.209	1.00	0.00
ATOM 725	2HD2	ASN	A	49	-4.561	6.704	5.771	1.00	0.00
ATOM 726	N	GLN	A	50	-0.602	2.337	7.741	1.00	0.00
ATOM 727	CA	GLN	A	50	0.463	2.085	8.704	1.00	0.00
ATOM 728	C	GLN	A	50	1.820	2.019	8.011	1.00	0.00
ATOM 729	O	GLN	A	50	2.763	2.707	8.402	1.00	0.00

ATOM 730	CB	GLN A	50	0.194	0.779	9.456	1.00	0.00
ATOM 731	CG	GLN A	50	0.345	0.901	10.962	1.00	0.00
ATOM 732	CD	GLN A	50	1.794	0.889	11.407	1.00	0.00
ATOM 733	OE1	GLN A	50	2.249	1.793	12.108	1.00	0.00
ATOM 734	NE2	GLN A	50	2.531	-0.139	11.000	1.00	0.00
ATOM 735	H	GLN A	50	-1.288	1.650	7.598	1.00	0.00
ATOM 736	HA	GLN A	50	0.470	2.901	9.411	1.00	0.00
ATOM 737	1HB	GLN A	50	-0.814	0.456	9.242	1.00	0.00
ATOM 738	2HB	GLN A	50	0.885	0.026	9.106	1.00	0.00
ATOM 739	1HG	GLN A	50	-0.106	1.827	11.283	1.00	0.00
ATOM 740	2HG	GLN A	50	-0.165	0.071	11.428	1.00	0.00
ATOM 741	1HE2	GLN A	50	2.102	-0.822	10.443	1.00	0.00
ATOM 742	2HE2	GLN A	50	3.471	-0.172	11.273	1.00	0.00
ATOM 743	N	LEU A	51	1.911	1.182	6.981	1.00	0.00
ATOM 744	CA	LEU A	51	3.151	1.017	6.229	1.00	0.00
ATOM 745	C	LEU A	51	3.734	2.365	5.812	1.00	0.00
ATOM 746	O	LEU A	51	4.952	2.535	5.762	1.00	0.00
ATOM 747	CB	LEU A	51	2.905	0.151	4.991	1.00	0.00
ATOM 748	CG	LEU A	51	4.166	-0.261	4.227	1.00	0.00
ATOM 749	CD1	LEU A	51	3.962	-1.606	3.549	1.00	0.00
ATOM 750	CD2	LEU A	51	4.538	0.802	3.204	1.00	0.00
ATOM 751	H	LEU A	51	1.122	0.661	6.723	1.00	0.00
ATOM 752	HA	LEU A	51	3.861	0.515	6.869	1.00	0.00
ATOM 753	1HB	LEU A	51	2.388	-0.745	5.302	1.00	0.00
ATOM 754	2HB	LEU A	51	2.266	0.699	4.316	1.00	0.00
ATOM 755	HG	LEU A	51	4.985	-0.358	4.924	1.00	0.00
ATOM 756	1HD1	LEU A	51	2.912	-1.751	3.342	1.00	0.00

ATOM 757	2HD1	LEU	A	51	4.311	-2.394	4.201	1.00	0.00
ATOM 758	3HD1	LEU	A	51	4.519	-1.631	2.624	1.00	0.00
ATOM 759	1HD2	LEU	A	51	5.231	0.384	2.488	1.00	0.00
ATOM 760	2HD2	LEU	A	51	5.001	1.638	3.706	1.00	0.00
ATOM 761	3HD2	LEU	A	51	3.648	1.136	2.692	1.00	0.00
ATOM 762	N	PHE	A	52	2.859	3.319	5.513	1.00	0.00
ATOM 763	CA	PHE	A	52	3.293	4.649	5.099	1.00	0.00
ATOM 764	C	PHE	A	52	4.074	5.341	6.212	1.00	0.00
ATOM 765	O	PHE	A	52	5.249	5.669	6.047	1.00	0.00
ATOM 766	CB	PHE	A	52	2.088	5.504	4.699	1.00	0.00
ATOM 767	CG	PHE	A	52	1.290	4.936	3.559	1.00	0.00
ATOM 768	CD1	PHE	A	52	-0.084	5.107	3.511	1.00	0.00
ATOM 769	CD2	PHE	A	52	1.910	4.235	2.536	1.00	0.00
ATOM 770	CE1	PHE	A	52	-0.825	4.589	2.465	1.00	0.00
ATOM 771	CE2	PHE	A	52	1.174	3.714	1.489	1.00	0.00
ATOM 772	CZ	PHE	A	52	-0.195	3.892	1.454	1.00	0.00
ATOM 773	H	PHE	A	52	1.900	3.124	5.570	1.00	0.00
ATOM 774	HA	PHE	A	52	3.940	4.534	4.242	1.00	0.00
ATOM 775	1HB	PHE	A	52	1.429	5.601	5.549	1.00	0.00
ATOM 776	2HB	PHE	A	52	2.436	6.485	4.407	1.00	0.00
ATOM 777	HD1	PHE	A	52	-0.579	5.653	4.300	1.00	0.00
ATOM 778	HD2	PHE	A	52	2.980	4.095	2.563	1.00	0.00
ATOM 779	HE1	PHE	A	52	-1.896	4.728	2.441	1.00	0.00
ATOM 780	HE2	PHE	A	52	1.669	3.169	0.698	1.00	0.00
ATOM 781	HZ	PHE	A	52	-0.772	3.486	0.636	1.00	0.00
ATOM 782	N	ARG	A	53	3.414	5.562	7.344	1.00	0.00
ATOM 783	CA	ARG	A	53	4.047	6.219	8.484	1.00	0.00



ATOM 784	C	ARG A	53	5.304	5.471	8.922	1.00	0.00
ATOM 785	O	ARG A	53	6.220	6.061	9.493	1.00	0.00
ATOM 786	CB	ARG A	53	3.065	6.321	9.653	1.00	0.00
ATOM 787	CG	ARG A	53	2.653	4.972	10.223	1.00	0.00
ATOM 788	CD	ARG A	53	2.573	5.005	11.742	1.00	0.00
ATOM 789	NE	ARG A	53	1.209	4.804	12.223	1.00	0.00
ATOM 790	CZ	ARG A	53	0.907	4.454	13.472	1.00	0.00
ATOM 791	NH1	ARG A	53	1.870	4.268	14.366	1.00	0.00
ATOM 792	NH2	ARG A	53	-0.360	4.291	13.827	1.00	0.00
ATOM 793	H	ARG A	53	2.478	5.279	7.416	1.00	0.00
ATOM 794	HA	ARG A	53	4.327	7.215	8.175	1.00	0.00
ATOM 795	1HB	ARG A	53	3.524	6.897	10.443	1.00	0.00
ATOM 796	2HB	ARG A	53	2.175	6.832	9.316	1.00	0.00
ATOM 797	1HG	ARG A	53	1.684	4.706	9.828	1.00	0.00
ATOM 798	2HG	ARG A	53	3.380	4.230	9.926	1.00	0.00
ATOM 799	1HD	ARG A	53	3.203	4.225	12.140	1.00	0.00
ATOM 800	2HD	ARG A	53	2.928	5.965	12.089	1.00	0.00
ATOM 801	HE	ARG A	53	0.478	4.934	11.582	1.00	0.00
ATOM 802	1HH1	ARG A	53	2.827	4.390	14.105	1.00	0.00
ATOM 803	2HH1	ARG A	53	1.637	4.005	15.303	1.00	0.00
ATOM 804	1HH2	ARG A	53	-1.089	4.430	13.156	1.00	0.00
ATOM 805	2HH2	ARG A	53	-0.586	4.028	14.764	1.00	0.00
ATOM 806	N	ASN A	54	5.340	4.170	8.652	1.00	0.00
ATOM 807	CA	ASN A	54	6.486	3.345	9.020	1.00	0.00
ATOM 808	C	ASN A	54	7.623	3.508	8.014	1.00	0.00
ATOM 809	O	ASN A	54	8.795	3.376	8.362	1.00	0.00
ATOM 810	CB	ASN A	54	6.075	1.874	9.108	1.00	0.00

ATOM 811	CG	ASN A	54	5.752	1.450	10.528	1.00	0.00
ATOM 812	OD1	ASN A	54	6.537	0.755	11.175	1.00	0.00
ATOM 813	ND2	ASN A	54	4.591	1.866	11.020	1.00	0.00
ATOM 814	H	ASN A	54	4.581	3.754	8.194	1.00	0.00
ATOM 815	HA	ASN A	54	6.831	3.672	9.989	1.00	0.00
ATOM 816	1HB	ASN A	54	5.199	1.714	8.498	1.00	0.00
ATOM 817	2HB	ASN A	54	6.883	1.257	8.743	1.00	0.00
ATOM 818	1HD2	ASN A	54	4.016	2.416	10.448	1.00	0.00
ATOM 819	2HD2	ASN A	54	4.356	1.606	11.935	1.00	0.00
ATOM 820	N	SER A	55	7.266	3.794	6.766	1.00	0.00
ATOM 821	CA	SER A	55	8.256	3.973	5.709	1.00	0.00
ATOM 822	C	SER A	55	9.196	5.131	6.031	1.00	0.00
ATOM 823	O	SER A	55	8.924	5.936	6.921	1.00	0.00
ATOM 824	CB	SER A	55	7.562	4.223	4.370	1.00	0.00
ATOM 825	OG	SER A	55	7.028	5.534	4.307	1.00	0.00
ATOM 826	H	SER A	55	6.315	3.886	6.549	1.00	0.00
ATOM 827	HA	SER A	55	8.835	3.064	5.641	1.00	0.00
ATOM 828	1HB	SER A	55	8.276	4.100	3.568	1.00	0.00
ATOM 829	2HB	SER A	55	6.757	3.512	4.246	1.00	0.00
ATOM 830	HG	SER A	55	6.094	5.510	4.529	1.00	0.00
ATOM 831	N	SER A	56	10.302	5.208	5.299	1.00	0.00
ATOM 832	CA	SER A	56	11.283	6.267	5.502	1.00	0.00
ATOM 833	C	SER A	56	10.703	7.627	5.127	1.00	0.00
ATOM 834	O	SER A	56	11.113	8.657	5.663	1.00	0.00
ATOM 835	CB	SER A	56	12.541	5.992	4.676	1.00	0.00
ATOM 836	OG	SER A	56	13.675	6.623	5.246	1.00	0.00
ATOM 837	H	SER A	56	10.462	4.537	4.602	1.00	0.00

ATOM 838	HA	SER A	56	11.547	6.278	6.550	1.00	0.00
ATOM 839	1HB	SER A	56	12.719	4.928	4.638	1.00	0.00
ATOM 840	2HB	SER A	56	12.400	6.370	3.674	1.00	0.00
ATOM 841	HG	SER A	56	14.354	6.731	4.575	1.00	0.00
ATOM 842	N	ILE A	57	9.747	7.624	4.205	1.00	0.00
ATOM 843	CA	ILE A	57	9.109	8.857	3.759	1.00	0.00
ATOM 844	C	ILE A	57	7.836	9.134	4.553	1.00	0.00
ATOM 845	O	ILE A	57	6.797	9.474	3.984	1.00	0.00
ATOM 846	CB	ILE A	57	8.767	8.801	2.257	1.00	0.00
ATOM 847	CG1	ILE A	57	7.893	7.582	1.956	1.00	0.00
ATOM 848	CG2	ILE A	57	10.040	8.764	1.424	1.00	0.00
ATOM 849	CD1	ILE A	57	7.338	7.568	0.549	1.00	0.00
ATOM 850	H	ILE A	57	9.461	6.772	3.814	1.00	0.00
ATOM 851	HA	ILE A	57	9.805	9.668	3.917	1.00	0.00
ATOM 852	HB	ILE A	57	8.223	9.697	2.000	1.00	0.00
ATOM 853	1HG1	ILE A	57	8.478	6.685	2.089	1.00	0.00
ATOM 854	2HG1	ILE A	57	7.059	7.567	2.642	1.00	0.00
ATOM 855	1HG2	ILE A	57	9.883	8.145	0.554	1.00	0.00
ATOM 856	2HG2	ILE A	57	10.846	8.357	2.016	1.00	0.00
ATOM 857	3HG2	ILE A	57	10.294	9.767	1.111	1.00	0.00
ATOM 858	1HD1	ILE A	57	7.263	8.582	0.181	1.00	0.00
ATOM 859	2HD1	ILE A	57	6.359	7.113	0.552	1.00	0.00
ATOM 860	3HD1	ILE A	57	7.996	7.002	-0.093	1.00	0.00
ATOM 861	N	LYS A	58	7.924	8.988	5.871	1.00	0.00
ATOM 862	CA	LYS A	58	6.780	9.223	6.745	1.00	0.00
ATOM 863	C	LYS A	58	6.676	10.697	7.122	1.00	0.00
ATOM 864	O	LYS A	58	6.649	11.049	8.301	1.00	0.00

ATOM 865	CB	LYS A	58	6.892	8.364	8.007	1.00	0.00
ATOM 866	CG	LYS A	58	8.093	8.710	8.873	1.00	0.00
ATOM 867	CD	LYS A	58	8.553	7.513	9.690	1.00	0.00
ATOM 868	CE	LYS A	58	9.893	7.775	10.357	1.00	0.00
ATOM 869	NZ	LYS A	58	11.013	7.109	9.636	1.00	0.00
ATOM 870	H	LYS A	58	8.778	8.715	6.266	1.00	0.00
ATOM 871	HA	LYS A	58	5.888	8.938	6.205	1.00	0.00
ATOM 872	1HB	LYS A	58	5.999	8.498	8.599	1.00	0.00
ATOM 873	2HB	LYS A	58	6.969	7.327	7.718	1.00	0.00
ATOM 874	1HG	LYS A	58	8.903	9.030	8.235	1.00	0.00
ATOM 875	2HG	LYS A	58	7.822	9.511	9.544	1.00	0.00
ATOM 876	1HD	LYS A	58	7.817	7.306	10.453	1.00	0.00
ATOM 877	2HD	LYS A	58	8.647	6.658	9.036	1.00	0.00
ATOM 878	1HE	LYS A	58	10.071	8.841	10.372	1.00	0.00
ATOM 879	2HE	LYS A	58	9.855	7.403	11.371	1.00	0.00
ATOM 880	1HZ	LYS A	58	11.921	7.526	9.923	1.00	0.00
ATOM 881	2HZ	LYS A	58	10.898	7.227	8.610	1.00	0.00
ATOM 882	3HZ	LYS A	58	11.026	6.093	9.859	1.00	0.00
ATOM 883	N	SER A	59	6.618	11.559	6.110	1.00	0.00
ATOM 884	CA	SER A	59	6.516	12.996	6.335	1.00	0.00
ATOM 885	C	SER A	59	5.825	13.680	5.160	1.00	0.00
ATOM 886	O	SER A	59	4.913	14.486	5.347	1.00	0.00
ATOM 887	CB	SER A	59	7.906	13.600	6.546	1.00	0.00
ATOM 888	OG	SER A	59	7.844	14.736	7.391	1.00	0.00
ATOM 889	H	SER A	59	6.643	11.219	5.192	1.00	0.00
ATOM 890	HA	SER A	59	5.926	13.151	7.225	1.00	0.00
ATOM 891	1HB	SER A	59	8.551	12.864	7.002	1.00	0.00

ATOM 892	2HB	SER A	59	8.316	13.898	5.592	1.00	0.00
ATOM 893	HG	SER A	59	8.646	15.255	7.288	1.00	0.00
ATOM 894	N	TYR A	60	6.264	13.350	3.949	1.00	0.00
ATOM 895	CA	TYR A	60	5.686	13.932	2.743	1.00	0.00
ATOM 896	C	TYR A	60	4.461	13.142	2.294	1.00	0.00
ATOM 897	O	TYR A	60	3.532	13.696	1.707	1.00	0.00
ATOM 898	CB	TYR A	60	6.724	13.967	1.620	1.00	0.00
ATOM 899	CG	TYR A	60	7.829	14.975	1.846	1.00	0.00
ATOM 900	CD1	TYR A	60	7.536	16.307	2.106	1.00	0.00
ATOM 901	CD2	TYR A	60	9.164	14.594	1.799	1.00	0.00
ATOM 902	CE1	TYR A	60	8.543	17.233	2.312	1.00	0.00
ATOM 903	CE2	TYR A	60	10.175	15.511	2.003	1.00	0.00
ATOM 904	CZ	TYR A	60	9.860	16.829	2.259	1.00	0.00
ATOM 905	OH	TYR A	60	10.865	17.746	2.464	1.00	0.00
ATOM 906	H	TYR A	60	6.992	12.701	3.865	1.00	0.00
ATOM 907	HA	TYR A	60	5.383	14.942	2.974	1.00	0.00
ATOM 908	1HB	TYR A	60	7.180	12.992	1.530	1.00	0.00
ATOM 909	2HB	TYR A	60	6.231	14.216	0.692	1.00	0.00
ATOM 910	HD1	TYR A	60	6.503	16.620	2.146	1.00	0.00
ATOM 911	HD2	TYR A	60	9.407	13.561	1.597	1.00	0.00
ATOM 912	HE1	TYR A	60	8.294	18.264	2.513	1.00	0.00
ATOM 913	HE2	TYR A	60	11.207	15.196	1.963	1.00	0.00
ATOM 914	HH	TYR A	60	11.500	17.391	3.091	1.00	0.00
ATOM 915	N	PHE A	61	4.466	11.842	2.575	1.00	0.00
ATOM 916	CA	PHE A	61	3.357	10.973	2.201	1.00	0.00
ATOM 917	C	PHE A	61	2.065	11.415	2.883	1.00	0.00
ATOM 918	O	PHE A	61	1.978	11.446	4.110	1.00	0.00

ATOM 919	CB	PHE A	61	3.670	9.522	2.571	1.00	0.00
ATOM 920	CG	PHE A	61	2.800	8.520	1.867	1.00	0.00
ATOM 921	CD1	PHE A	61	1.447	8.439	2.148	1.00	0.00
ATOM 922	CD2	PHE A	61	3.338	7.658	0.924	1.00	0.00
ATOM 923	CE1	PHE A	61	0.644	7.519	1.502	1.00	0.00
ATOM 924	CE2	PHE A	61	2.540	6.734	0.275	1.00	0.00
ATOM 925	CZ	PHE A	61	1.191	6.664	0.564	1.00	0.00
ATOM 926	H	PHE A	61	5.236	11.458	3.046	1.00	0.00
ATOM 927	HA	PHE A	61	3.227	11.042	1.131	1.00	0.00
ATOM 928	1HB	PHE A	61	4.697	9.307	2.315	1.00	0.00
ATOM 929	2HB	PHE A	61	3.535	9.392	3.634	1.00	0.00
ATOM 930	HD1	PHE A	61	1.017	9.107	2.880	1.00	0.00
ATOM 931	HD2	PHE A	61	4.392	7.711	0.697	1.00	0.00
ATOM 932	HE1	PHE A	61	-0.410	7.465	1.730	1.00	0.00
ATOM 933	HE2	PHE A	61	2.971	6.068	-0.457	1.00	0.00
ATOM 934	HZ	PHE A	61	0.566	5.944	0.059	1.00	0.00
ATOM 935	N	SER A	62	1.065	11.759	2.078	1.00	0.00
ATOM 936	CA	SER A	62	-0.222	12.199	2.603	1.00	0.00
ATOM 937	C	SER A	62	-1.114	11.005	2.924	1.00	0.00
ATOM 938	O	SER A	62	-1.469	10.776	4.080	1.00	0.00
ATOM 939	CB	SER A	62	-0.920	13.117	1.599	1.00	0.00
ATOM 940	OG	SER A	62	-0.621	14.478	1.858	1.00	0.00
ATOM 941	H	SER A	62	1.195	11.714	1.108	1.00	0.00
ATOM 942	HA	SER A	62	-0.036	12.750	3.514	1.00	0.00
ATOM 943	1HB	SER A	62	-0.588	12.874	0.600	1.00	0.00
ATOM 944	2HB	SER A	62	-1.988	12.976	1.668	1.00	0.00
ATOM 945	HG	SER A	62	-0.988	14.730	2.709	1.00	0.00

ATOM 946	N	ASP	A	63	-1.472	10.247	1.893	1.00	0.00
ATOM 947	CA	ASP	A	63	-2.322	9.075	2.065	1.00	0.00
ATOM 948	C	ASP	A	63	-2.522	8.345	0.740	1.00	0.00
ATOM 949	O	ASP	A	63	-1.983	8.750	-0.291	1.00	0.00
ATOM 950	CB	ASP	A	63	-3.678	9.483	2.644	1.00	0.00
ATOM 951	CG	ASP	A	63	-4.219	8.462	3.625	1.00	0.00
ATOM 952	OD1	ASP	A	63	-3.845	8.527	4.816	1.00	0.00
ATOM 953	OD2	ASP	A	63	-5.016	7.597	3.204	1.00	0.00
ATOM 954	H	ASP	A	63	-1.156	10.480	0.995	1.00	0.00
ATOM 955	HA	ASP	A	63	-1.831	8.408	2.759	1.00	0.00
ATOM 956	1HB	ASP	A	63	-3.574	10.427	3.157	1.00	0.00
ATOM 957	2HB	ASP	A	63	-4.389	9.592	1.838	1.00	0.00
ATOM 958	N	CYS	A	64	-3.299	7.268	0.777	1.00	0.00
ATOM 959	CA	CYS	A	64	-3.572	6.480	-0.419	1.00	0.00
ATOM 960	C	CYS	A	64	-5.062	6.488	-0.746	1.00	0.00
ATOM 961	O	CYS	A	64	-5.888	6.852	0.090	1.00	0.00
ATOM 962	CB	CYS	A	64	-3.086	5.043	-0.232	1.00	0.00
ATOM 963	SG	CYS	A	64	-2.431	4.282	-1.735	1.00	0.00
ATOM 964	H	CYS	A	64	-3.699	6.996	1.628	1.00	0.00
ATOM 965	HA	CYS	A	64	-3.033	6.928	-1.242	1.00	0.00
ATOM 966	1HB	CYS	A	64	-2.301	5.030	0.510	1.00	0.00
ATOM 967	2HB	CYS	A	64	-3.910	4.434	0.113	1.00	0.00
ATOM 968	HG	CYS	A	64	-2.460	3.329	-1.622	1.00	0.00
ATOM 969	N	GLN	A	65	-5.397	6.083	-1.966	1.00	0.00
ATOM 970	CA	GLN	A	65	-6.787	6.044	-2.402	1.00	0.00
ATOM 971	C	GLN	A	65	-7.077	4.765	-3.181	1.00	0.00
ATOM 972	O	GLN	A	65	-6.631	4.603	-4.317	1.00	0.00

ATOM 973	CB	GLN A	65	-7.106	7.264	-3.267	1.00	0.00
ATOM 974	CG	GLN A	65	-8.557	7.712	-3.174	1.00	0.00
ATOM 975	CD	GLN A	65	-9.364	7.332	-4.400	1.00	0.00
ATOM 976	OE1	GLN A	65	-10.137	6.374	-4.377	1.00	0.00
ATOM 977	NE2	GLN A	65	-9.188	8.084	-5.481	1.00	0.00
ATOM 978	H	GLN A	65	-4.692	5.804	-2.588	1.00	0.00
ATOM 979	HA	GLN A	65	-7.411	6.064	-1.521	1.00	0.00
ATOM 980	1HB	GLN A	65	-6.478	8.085	-2.956	1.00	0.00
ATOM 981	2HB	GLN A	65	-6.891	7.027	-4.298	1.00	0.00
ATOM 982	1HG	GLN A	65	-9.008	7.251	-2.308	1.00	0.00
ATOM 983	2HG	GLN A	65	-8.581	8.786	-3.063	1.00	0.00
ATOM 984	1HE2	GLN A	65	-8.555	8.831	-5.427	1.00	0.00
ATOM 985	2HE2	GLN A	65	-9.697	7.861	-6.287	1.00	0.00
ATOM 986	N	VAL A	66	-7.827	3.858	-2.562	1.00	0.00
ATOM 987	CA	VAL A	66	-8.177	2.595	-3.199	1.00	0.00
ATOM 988	C	VAL A	66	-9.268	2.795	-4.248	1.00	0.00
ATOM 989	O	VAL A	66	-10.453	2.871	-3.923	1.00	0.00
ATOM 990	CB	VAL A	66	-8.645	1.553	-2.160	1.00	0.00
ATOM 991	CG1	VAL A	66	-9.877	2.048	-1.418	1.00	0.00
ATOM 992	CG2	VAL A	66	-8.916	0.211	-2.827	1.00	0.00
ATOM 993	H	VAL A	66	-8.153	4.044	-1.657	1.00	0.00
ATOM 994	HA	VAL A	66	-7.291	2.212	-3.686	1.00	0.00
ATOM 995	HB	VAL A	66	-7.853	1.416	-1.439	1.00	0.00
ATOM 996	1HG1	VAL A	66	-10.763	1.635	-1.875	1.00	0.00
ATOM 997	2HG1	VAL A	66	-9.916	3.126	-1.464	1.00	0.00
ATOM 998	3HG1	VAL A	66	-9.824	1.734	-0.385	1.00	0.00
ATOM 999	1HG2	VAL A	66	-9.774	-0.254	-2.364	1.00	0.00



ATOM 1000	2HG2	VAL	A	66	-8.054	-0.430	-2.711	1.00	0.00
ATOM 1001	3HG2	VAL	A	66	-9.112	0.362	-3.878	1.00	0.00
ATOM 1002	N	LEU	A	67	-8.858	2.884	-5.509	1.00	0.00
ATOM 1003	CA	LEU	A	67	-9.797	3.079	-6.608	1.00	0.00
ATOM 1004	C	LEU	A	67	-10.818	1.946	-6.660	1.00	0.00
ATOM 1005	O	LEU	A	67	-12.024	2.181	-6.589	1.00	0.00
ATOM 1006	CB	LEU	A	67	-9.047	3.166	-7.938	1.00	0.00
ATOM 1007	CG	LEU	A	67	-7.865	4.138	-7.953	1.00	0.00
ATOM 1008	CD1	LEU	A	67	-7.242	4.198	-9.339	1.00	0.00
ATOM 1009	CD2	LEU	A	67	-8.308	5.522	-7.504	1.00	0.00
ATOM 1010	H	LEU	A	67	-7.900	2.817	-5.705	1.00	0.00
ATOM 1011	HA	LEU	A	67	-10.318	4.008	-6.437	1.00	0.00
ATOM 1012	1HB	LEU	A	67	-8.680	2.181	-8.186	1.00	0.00
ATOM 1013	2HB	LEU	A	67	-9.745	3.473	-8.702	1.00	0.00
ATOM 1014	HG	LEU	A	67	-7.110	3.787	-7.264	1.00	0.00
ATOM 1015	1HD1	LEU	A	67	-6.422	3.497	-9.396	1.00	0.00
ATOM 1016	2HD1	LEU	A	67	-6.875	5.197	-9.526	1.00	0.00
ATOM 1017	3HD1	LEU	A	67	-7.986	3.944	-10.080	1.00	0.00
ATOM 1018	1HD2	LEU	A	67	-7.742	6.272	-8.036	1.00	0.00
ATOM 1019	2HD2	LEU	A	67	-8.138	5.628	-6.443	1.00	0.00
ATOM 1020	3HD2	LEU	A	67	-9.360	5.648	-7.714	1.00	0.00
ATOM 1021	N	ALA	A	68	-10.325	0.719	-6.787	1.00	0.00
ATOM 1022	CA	ALA	A	68	-11.195	-0.450	-6.850	1.00	0.00
ATOM 1023	C	ALA	A	68	-10.382	-1.740	-6.851	1.00	0.00
ATOM 1024	O	ALA	A	68	-9.151	-1.710	-6.857	1.00	0.00
ATOM 1025	CB	ALA	A	68	-12.082	-0.382	-8.083	1.00	0.00
ATOM 1026	H	ALA	A	68	-9.355	0.595	-6.839	1.00	0.00

ATOM 1027	HA	ALA	A	68	-11.831	-0.439	-5.977	1.00	0.00
ATOM 1028	1HB	ALA	A	68	-11.567	-0.825	-8.923	1.00	0.00
ATOM 1029	2HB	ALA	A	68	-12.312	0.650	-8.306	1.00	0.00
ATOM 1030	3HB	ALA	A	68	-12.998	-0.923	-7.898	1.00	0.00
ATOM 1031	N	PHE	A	69	-11.079	-2.872	-6.848	1.00	0.00
ATOM 1032	CA	PHE	A	69	-10.420	-4.173	-6.850	1.00	0.00
ATOM 1033	C	PHE	A	69	-10.549	-4.846	-8.213	1.00	0.00
ATOM 1034	O	PHE	A	69	-11.551	-4.676	-8.907	1.00	0.00
ATOM 1035	CB	PHE	A	69	-11.015	-5.072	-5.766	1.00	0.00
ATOM 1036	CG	PHE	A	69	-10.751	-4.586	-4.369	1.00	0.00
ATOM 1037	CD1	PHE	A	69	-11.797	-4.190	-3.550	1.00	0.00
ATOM 1038	CD2	PHE	A	69	-9.457	-4.525	-3.875	1.00	0.00
ATOM 1039	CE1	PHE	A	69	-11.558	-3.742	-2.265	1.00	0.00
ATOM 1040	CE2	PHE	A	69	-9.212	-4.078	-2.590	1.00	0.00
ATOM 1041	CZ	PHE	A	69	-10.264	-3.687	-1.784	1.00	0.00
ATOM 1042	H	PHE	A	69	-12.057	-2.832	-6.845	1.00	0.00
ATOM 1043	HA	PHE	A	69	-9.374	-4.013	-6.639	1.00	0.00
ATOM 1044	1HB	PHE	A	69	-12.085	-5.127	-5.900	1.00	0.00
ATOM 1045	2HB	PHE	A	69	-10.595	-6.063	-5.858	1.00	0.00
ATOM 1046	HD1	PHE	A	69	-12.809	-4.233	-3.925	1.00	0.00
ATOM 1047	HD2	PHE	A	69	-8.634	-4.831	-4.503	1.00	0.00
ATOM 1048	HE1	PHE	A	69	-12.382	-3.436	-1.637	1.00	0.00
ATOM 1049	HE2	PHE	A	69	-8.200	-4.035	-2.216	1.00	0.00
ATOM 1050	HZ	PHE	A	69	-10.075	-3.336	-0.780	1.00	0.00
ATOM 1051	N	ARG	A	70	-9.529	-5.611	-8.589	1.00	0.00
ATOM 1052	CA	ARG	A	70	-9.529	-6.309	-9.869	1.00	0.00
ATOM 1053	C	ARG	A	70	-9.958	-7.763	-9.695	1.00	0.00

ATOM	1054	O	ARG	A	70	-9.448	-8.471	-8.828	1.00	0.00
ATOM	1055	CB	ARG	A	70	-8.141	-6.246	-10.509	1.00	0.00
ATOM	1056	CG	ARG	A	70	-8.172	-5.962	-12.002	1.00	0.00
ATOM	1057	CD	ARG	A	70	-8.198	-4.468	-12.283	1.00	0.00
ATOM	1058	NE	ARG	A	70	-8.334	-4.182	-13.710	1.00	0.00
ATOM	1059	CZ	ARG	A	70	-8.727	-3.007	-14.196	1.00	0.00
ATOM	1060	NH1	ARG	A	70	-9.024	-2.007	-13.375	1.00	0.00
ATOM	1061	NH2	ARG	A	70	-8.824	-2.831	-15.507	1.00	0.00
ATOM	1062	H	ARG	A	70	-8.759	-5.707	-7.992	1.00	0.00
ATOM	1063	HA	ARG	A	70	-10.237	-5.813	-10.516	1.00	0.00
ATOM	1064	1HB	ARG	A	70	-7.572	-5.464	-10.028	1.00	0.00
ATOM	1065	2HB	ARG	A	70	-7.641	-7.191	-10.355	1.00	0.00
ATOM	1066	1HG	ARG	A	70	-7.291	-6.388	-12.458	1.00	0.00
ATOM	1067	2HG	ARG	A	70	-9.056	-6.415	-12.427	1.00	0.00
ATOM	1068	1HD	ARG	A	70	-9.033	-4.030	-11.757	1.00	0.00
ATOM	1069	2HD	ARG	A	70	-7.277	-4.031	-11.924	1.00	0.00
ATOM	1070	HE	ARG	A	70	-8.121	-4.903	-14.339	1.00	0.00
ATOM	1071	1HH1	ARG	A	70	-8.953	-2.132	-12.386	1.00	0.00
ATOM	1072	2HH1	ARG	A	70	-9.318	-1.125	-13.748	1.00	0.00
ATOM	1073	1HH2	ARG	A	70	-8.601	-3.582	-16.130	1.00	0.00
ATOM	1074	2HH2	ARG	A	70	-9.119	-1.948	-15.873	1.00	0.00
ATOM	1075	N	SER	A	71	-10.899	-8.201	-10.526	1.00	0.00
ATOM	1076	CA	SER	A	71	-11.397	-9.570	-10.464	1.00	0.00
ATOM	1077	C	SER	A	71	-10.510	-10.510	-11.275	1.00	0.00
ATOM	1078	O	SER	A	71	-10.216	-10.248	-12.442	1.00	0.00
ATOM	1079	CB	SER	A	71	-12.835	-9.637	-10.979	1.00	0.00
ATOM	1080	OG	SER	A	71	-13.575	-10.638	-10.301	1.00	0.00

ATOM 1081	H	SER A	71	-11.267	-7.589	-11.197	1.00	0.00
ATOM 1082	HA	SER A	71	-11.379	-9.883	-9.430	1.00	0.00
ATOM 1083	1HB	SER A	71	-13.317	-8.683	-10.820	1.00	0.00
ATOM 1084	2HB	SER A	71	-12.827	-9.865	-12.035	1.00	0.00
ATOM 1085	HG	SER A	71	-13.179	-11.497	-10.469	1.00	0.00
ATOM 1086	N	VAL A	72	-10.087	-11.604	-10.651	1.00	0.00
ATOM 1087	CA	VAL A	72	-9.234	-12.582	-11.315	1.00	0.00
ATOM 1088	C	VAL A	72	-10.007	-13.858	-11.632	1.00	0.00
ATOM 1089	O	VAL A	72	-10.802	-14.333	-10.822	1.00	0.00
ATOM 1090	CB	VAL A	72	-8.009	-12.939	-10.453	1.00	0.00
ATOM 1091	CG1	VAL A	72	-7.100	-11.729	-10.291	1.00	0.00
ATOM 1092	CG2	VAL A	72	-8.447	-13.471	-9.097	1.00	0.00
ATOM 1093	H	VAL A	72	-10.356	-11.758	-9.720	1.00	0.00
ATOM 1094	HA	VAL A	72	-8.884	-12.146	-12.239	1.00	0.00
ATOM 1095	HB	VAL A	72	-7.453	-13.714	-10.958	1.00	0.00
ATOM 1096	1HG1	VAL A	72	-6.102	-12.060	-10.043	1.00	0.00
ATOM 1097	2HG1	VAL A	72	-7.478	-11.099	-9.500	1.00	0.00
ATOM 1098	3HG1	VAL A	72	-7.075	-11.172	-11.215	1.00	0.00
ATOM 1099	1HG2	VAL A	72	-7.605	-13.931	-8.602	1.00	0.00
ATOM 1100	2HG2	VAL A	72	-9.229	-14.204	-9.233	1.00	0.00
ATOM 1101	3HG2	VAL A	72	-8.818	-12.657	-8.493	1.00	0.00
ATOM 1102	N	SER A	73	-9.767	-14.409	-12.819	1.00	0.00
ATOM 1103	CA	SER A	73	-10.441	-15.631	-13.245	1.00	0.00
ATOM 1104	C	SER A	73	-9.464	-16.802	-13.313	1.00	0.00
ATOM 1105	O	SER A	73	-9.863	-17.961	-13.198	1.00	0.00
ATOM 1106	CB	SER A	73	-11.100	-15.423	-14.610	1.00	0.00
ATOM 1107	OG	SER A	73	-12.441	-14.987	-14.468	1.00	0.00

ATOM	1108	H	SER	A	73	-9.123	-13.983	-13.422	1.00	0.00
ATOM	1109	HA	SER	A	73	-11.205	-15.858	-12.518	1.00	0.00
ATOM	1110	1HB	SER	A	73	-10.549	-14.677	-15.164	1.00	0.00
ATOM	1111	2HB	SER	A	73	-11.094	-16.355	-15.156	1.00	0.00
ATOM	1112	N	ASN	A	74	-8.184	-16.495	-13.502	1.00	0.00
ATOM	1113	CA	ASN	A	74	-7.152	-17.523	-13.587	1.00	0.00
ATOM	1114	C	ASN	A	74	-7.180	-18.431	-12.360	1.00	0.00
ATOM	1115	O	ASN	A	74	-7.545	-19.603	-12.450	1.00	0.00
ATOM	1116	CB	ASN	A	74	-5.771	-16.879	-13.732	1.00	0.00
ATOM	1117	CG	ASN	A	74	-4.981	-17.460	-14.887	1.00	0.00
ATOM	1118	OD1	ASN	A	74	-4.647	-16.757	-15.841	1.00	0.00
ATOM	1119	ND2	ASN	A	74	-4.676	-18.750	-14.807	1.00	0.00
ATOM	1120	H	ASN	A	74	-7.926	-15.553	-13.587	1.00	0.00
ATOM	1121	HA	ASN	A	74	-7.354	-18.120	-14.464	1.00	0.00
ATOM	1122	1HB	ASN	A	74	-5.891	-15.819	-13.900	1.00	0.00
ATOM	1123	2HB	ASN	A	74	-5.211	-17.033	-12.822	1.00	0.00
ATOM	1124	1HD2	ASN	A	74	-4.975	-19.248	-14.018	1.00	0.00
ATOM	1125	2HD2	ASN	A	74	-4.165	-19.151	-15.541	1.00	0.00
ATOM	1126	N	ASN	A	75	-6.791	-17.881	-11.213	1.00	0.00
ATOM	1127	CA	ASN	A	75	-6.771	-18.641	-9.969	1.00	0.00
ATOM	1128	C	ASN	A	75	-8.115	-18.553	-9.252	1.00	0.00
ATOM	1129	O	ASN	A	75	-8.508	-19.471	-8.533	1.00	0.00
ATOM	1130	CB	ASN	A	75	-5.658	-18.130	-9.052	1.00	0.00
ATOM	1131	CG	ASN	A	75	-5.300	-19.126	-7.967	1.00	0.00
ATOM	1132	OD1	ASN	A	75	-5.760	-19.015	-6.831	1.00	0.00
ATOM	1133	ND2	ASN	A	75	-4.472	-20.106	-8.312	1.00	0.00
ATOM	1134	H	ASN	A	75	-6.510	-16.943	-11.204	1.00	0.00

ATOM 1135	HA	ASN A	75	-6.575	-19.674	-10.214	1.00	0.00
ATOM 1136	1HB	ASN A	75	-4.774	-17.937	-9.643	1.00	0.00
ATOM 1137	2HB	ASN A	75	-5.980	-17.212	-8.583	1.00	0.00
ATOM 1138	1HD2	ASN A	75	-4.144	-20.130	-9.235	1.00	0.00
ATOM 1139	2HD2	ASN A	75	-4.223	-20.763	-7.630	1.00	0.00
ATOM 1140	N	ASN A	76	-8.816	-17.441	-9.454	1.00	0.00
ATOM 1141	CA	ASN A	76	-10.116	-17.231	-8.826	1.00	0.00
ATOM 1142	C	ASN A	76	-9.988	-17.192	-7.306	1.00	0.00
ATOM 1143	O	ASN A	76	-10.929	-17.524	-6.585	1.00	0.00
ATOM 1144	CB	ASN A	76	-11.092	-18.335	-9.242	1.00	0.00
ATOM 1145	CG	ASN A	76	-12.094	-17.859	-10.275	1.00	0.00
ATOM 1146	OD1	ASN A	76	-12.151	-18.380	-11.388	1.00	0.00
ATOM 1147	ND2	ASN A	76	-12.892	-16.863	-9.910	1.00	0.00
ATOM 1148	H	ASN A	76	-8.449	-16.744	-10.037	1.00	0.00
ATOM 1149	HA	ASN A	76	-10.497	-16.280	-9.166	1.00	0.00
ATOM 1150	1HB	ASN A	76	-10.535	-19.160	-9.662	1.00	0.00
ATOM 1151	2HB	ASN A	76	-11.633	-18.678	-8.373	1.00	0.00
ATOM 1152	1HD2	ASN A	76	-12.791	-16.496	-9.007	1.00	0.00
ATOM 1153	2HD2	ASN A	76	-13.550	-16.535	-10.558	1.00	0.00
ATOM 1154	N	ASN A	77	-8.818	-16.781	-6.824	1.00	0.00
ATOM 1155	CA	ASN A	77	-8.570	-16.696	-5.390	1.00	0.00
ATOM 1156	C	ASN A	77	-7.707	-15.482	-5.051	1.00	0.00
ATOM 1157	O	ASN A	77	-7.118	-15.411	-3.972	1.00	0.00
ATOM 1158	CB	ASN A	77	-7.887	-17.973	-4.894	1.00	0.00
ATOM 1159	CG	ASN A	77	-7.981	-18.132	-3.389	1.00	0.00
ATOM 1160	OD1	ASN A	77	-6.971	-18.309	-2.707	1.00	0.00
ATOM 1161	ND2	ASN A	77	-9.198	-18.069	-2.862	1.00	0.00

ATOM	1162	H	ASN	A	77	-8.107	-16.528	-7.449	1.00	0.00
ATOM	1163	HA	ASN	A	77	-9.524	-16.594	-4.894	1.00	0.00
ATOM	1164	1HB	ASN	A	77	-8.358	-18.828	-5.356	1.00	0.00
ATOM	1165	2HB	ASN	A	77	-6.844	-17.947	-5.171	1.00	0.00
ATOM	1166	1HD2	ASN	A	77	-9.958	-17.925	-3.464	1.00	0.00
ATOM	1167	2HD2	ASN	A	77	-9.288	-18.168	-1.891	1.00	0.00
ATOM	1168	N	HIS	A	78	-7.639	-14.527	-5.975	1.00	0.00
ATOM	1169	CA	HIS	A	78	-6.850	-13.317	-5.769	1.00	0.00
ATOM	1170	C	HIS	A	78	-7.723	-12.074	-5.897	1.00	0.00
ATOM	1171	O	HIS	A	78	-8.938	-12.173	-6.067	1.00	0.00
ATOM	1172	CB	HIS	A	78	-5.700	-13.251	-6.776	1.00	0.00
ATOM	1173	CG	HIS	A	78	-4.974	-14.551	-6.947	1.00	0.00
ATOM	1174	ND1	HIS	A	78	-4.296	-14.887	-8.101	1.00	0.00
ATOM	1175	CD2	HIS	A	78	-4.819	-15.598	-6.103	1.00	0.00
ATOM	1176	CE1	HIS	A	78	-3.758	-16.086	-7.959	1.00	0.00
ATOM	1177	NE2	HIS	A	78	-4.060	-16.537	-6.756	1.00	0.00
ATOM	1178	H	HIS	A	78	-8.131	-14.636	-6.815	1.00	0.00
ATOM	1179	HA	HIS	A	78	-6.441	-13.354	-4.770	1.00	0.00
ATOM	1180	1HB	HIS	A	78	-6.090	-12.961	-7.739	1.00	0.00
ATOM	1181	2HB	HIS	A	78	-4.984	-12.512	-6.446	1.00	0.00
ATOM	1182	HD1	HIS	A	78	-4.222	-14.331	-8.904	1.00	0.00
ATOM	1183	HD2	HIS	A	78	-5.217	-15.678	-5.102	1.00	0.00
ATOM	1184	HE1	HIS	A	78	-3.170	-16.606	-8.700	1.00	0.00
ATOM	1185	HE2	HIS	A	78	-3.711	-17.363	-6.359	1.00	0.00
ATOM	1186	N	THR	A	79	-7.099	-10.904	-5.816	1.00	0.00
ATOM	1187	CA	THR	A	79	-7.824	-9.643	-5.925	1.00	0.00
ATOM	1188	C	THR	A	79	-6.870	-8.484	-6.194	1.00	0.00

ATOM	1189	O	THR	A	79	-6.002	-8.179	-5.376	1.00	0.00
ATOM	1190	CB	THR	A	79	-8.619	-9.376	-4.646	1.00	0.00
ATOM	1191	OG1	THR	A	79	-9.495	-10.453	-4.365	1.00	0.00
ATOM	1192	CG2	THR	A	79	-9.450	-8.113	-4.710	1.00	0.00
ATOM	1193	H	THR	A	79	-6.128	-10.888	-5.680	1.00	0.00
ATOM	1194	HA	THR	A	79	-8.511	-9.727	-6.753	1.00	0.00
ATOM	1195	HB	THR	A	79	-7.929	-9.276	-3.820	1.00	0.00
ATOM	1196	HG1	THR	A	79	-10.193	-10.478	-5.024	1.00	0.00
ATOM	1197	1HG2	THR	A	79	-10.420	-8.342	-5.126	1.00	0.00
ATOM	1198	2HG2	THR	A	79	-8.953	-7.387	-5.335	1.00	0.00
ATOM	1199	3HG2	THR	A	79	-9.570	-7.710	-3.716	1.00	0.00
ATOM	1200	N	GLY	A	80	-7.041	-7.838	-7.343	1.00	0.00
ATOM	1201	CA	GLY	A	80	-6.192	-6.716	-7.695	1.00	0.00
ATOM	1202	C	GLY	A	80	-6.410	-5.522	-6.786	1.00	0.00
ATOM	1203	O	GLY	A	80	-7.543	-5.221	-6.412	1.00	0.00
ATOM	1204	H	GLY	A	80	-7.752	-8.123	-7.954	1.00	0.00
ATOM	1205	1HA	GLY	A	80	-5.159	-7.023	-7.627	1.00	0.00
ATOM	1206	2HA	GLY	A	80	-6.403	-6.423	-8.713	1.00	0.00
ATOM	1207	N	VAL	A	81	-5.327	-4.843	-6.425	1.00	0.00
ATOM	1208	CA	VAL	A	81	-5.415	-3.679	-5.551	1.00	0.00
ATOM	1209	C	VAL	A	81	-5.053	-2.398	-6.293	1.00	0.00
ATOM	1210	O	VAL	A	81	-3.897	-1.972	-6.289	1.00	0.00
ATOM	1211	CB	VAL	A	81	-4.495	-3.823	-4.325	1.00	0.00
ATOM	1212	CG1	VAL	A	81	-4.730	-2.686	-3.342	1.00	0.00
ATOM	1213	CG2	VAL	A	81	-4.707	-5.171	-3.655	1.00	0.00
ATOM	1214	H	VAL	A	81	-4.449	-5.131	-6.753	1.00	0.00
ATOM	1215	HA	VAL	A	81	-6.434	-3.602	-5.202	1.00	0.00



ATOM	1216	HB	VAL	A	81	-3.470	-3.770	-4.662	1.00	0.00
ATOM	1217	_1HG1	VAL	A	81	-4.277	-2.931	-2.393	1.00	0.00
ATOM	1218	2HG1	VAL	A	81	-5.792	-2.540	-3.207	1.00	0.00
ATOM	1219	3HG1	VAL	A	81	-4.288	-1.778	-3.728	1.00	0.00
ATOM	1220	1HG2	VAL	A	81	-5.680	-5.189	-3.184	1.00	0.00
ATOM	1221	2HG2	VAL	A	81	-3.942	-5.326	-2.907	1.00	0.00
ATOM	1222	3HG2	VAL	A	81	-4.651	-5.955	-4.395	1.00	0.00
ATOM	1223	N	ASP	A	82	-6.047	-1.782	-6.923	1.00	0.00
ATOM	1224	CA	ASP	A	82	-5.833	-0.543	-7.661	1.00	0.00
ATOM	1225	C	ASP	A	82	-5.907	0.656	-6.722	1.00	0.00
ATOM	1226	O	ASP	A	82	-6.959	1.278	-6.573	1.00	0.00
ATOM	1227	CB	ASP	A	82	-6.872	-0.400	-8.775	1.00	0.00
ATOM	1228	CG	ASP	A	82	-6.309	0.284	-10.005	1.00	0.00
ATOM	1229	OD1	ASP	A	82	-6.407	-0.298	-11.105	1.00	0.00
ATOM	1230	OD2	ASP	A	82	-5.768	1.401	-9.868	1.00	0.00
ATOM	1231	H	ASP	A	82	-6.948	-2.166	-6.885	1.00	0.00
ATOM	1232	HA	ASP	A	82	-4.848	-0.583	-8.100	1.00	0.00
ATOM	1233	1HB	ASP	A	82	-7.223	-1.380	-9.060	1.00	0.00
ATOM	1234	2HB	ASP	A	82	-7.704	0.183	-8.410	1.00	0.00
ATOM	1235	N	SER	A	83	-4.783	0.971	-6.085	1.00	0.00
ATOM	1236	CA	SER	A	83	-4.720	2.090	-5.152	1.00	0.00
ATOM	1237	C	SER	A	83	-4.019	3.290	-5.781	1.00	0.00
ATOM	1238	O	SER	A	83	-3.652	3.262	-6.956	1.00	0.00
ATOM	1239	CB	SER	A	83	-3.995	1.669	-3.873	1.00	0.00
ATOM	1240	OG	SER	A	83	-3.032	0.664	-4.138	1.00	0.00
ATOM	1241	H	SER	A	83	-3.978	0.434	-6.241	1.00	0.00
ATOM	1242	HA	SER	A	83	-5.732	2.370	-4.906	1.00	0.00

ATOM	1243	1HB	SER	A	83	-3.495	2.525	-3.447	1.00	0.00
ATOM	1244	2HB	SER	A	83	-4.714	1.284	-3.165	1.00	0.00
ATOM	1245	HG	SER	A	83	-3.210	-0.102	-3.588	1.00	0.00
ATOM	1246	N	LEU	A	84	-3.842	4.343	-4.991	1.00	0.00
ATOM	1247	CA	LEU	A	84	-3.190	5.557	-5.469	1.00	0.00
ATOM	1248	C	LEU	A	84	-2.275	6.146	-4.400	1.00	0.00
ATOM	1249	O	LEU	A	84	-2.738	6.805	-3.469	1.00	0.00
ATOM	1250	CB	LEU	A	84	-4.242	6.591	-5.881	1.00	0.00
ATOM	1251	CG	LEU	A	84	-3.737	7.707	-6.799	1.00	0.00
ATOM	1252	CD1	LEU	A	84	-2.712	8.570	-6.081	1.00	0.00
ATOM	1253	CD2	LEU	A	84	-3.146	7.120	-8.073	1.00	0.00
ATOM	1254	H	LEU	A	84	-4.160	4.306	-4.066	1.00	0.00
ATOM	1255	HA	LEU	A	84	-2.596	5.298	-6.333	1.00	0.00
ATOM	1256	1HB	LEU	A	84	-5.045	6.075	-6.384	1.00	0.00
ATOM	1257	2HB	LEU	A	84	-4.636	7.047	-4.984	1.00	0.00
ATOM	1258	HG	LEU	A	84	-4.569	8.337	-7.077	1.00	0.00
ATOM	1259	1HD1	LEU	A	84	-1.718	8.228	-6.327	1.00	0.00
ATOM	1260	2HD1	LEU	A	84	-2.865	8.498	-5.015	1.00	0.00
ATOM	1261	3HD1	LEU	A	84	-2.827	9.598	-6.392	1.00	0.00
ATOM	1262	1HD2	LEU	A	84	-3.527	6.121	-8.220	1.00	0.00
ATOM	1263	2HD2	LEU	A	84	-2.070	7.087	-7.986	1.00	0.00
ATOM	1264	3HD2	LEU	A	84	-3.421	7.739	-8.914	1.00	0.00
ATOM	1265	N	CYS	A	85	-0.974	5.912	-4.542	1.00	0.00
ATOM	1266	CA	CYS	A	85	0.001	6.429	-3.589	1.00	0.00
ATOM	1267	C	CYS	A	85	0.079	7.950	-3.680	1.00	0.00
ATOM	1268	O	CYS	A	85	1.024	8.502	-4.243	1.00	0.00
ATOM	1269	CB	CYS	A	85	1.380	5.812	-3.847	1.00	0.00

ATOM 1270	SG	CYS A	85	1.609	4.185	-3.095	1.00	0.00
ATOM 1271	H	CYS A	85	-0.663	5.384	-5.307	1.00	0.00
ATOM 1272	HA	CYS A	85	-0.326	6.153	-2.598	1.00	0.00
ATOM 1273	1HB	CYS A	85	1.525	5.706	-4.911	1.00	0.00
ATOM 1274	2HB	CYS A	85	2.143	6.468	-3.450	1.00	0.00
ATOM 1275	HG	CYS A	85	2.305	3.731	-3.577	1.00	0.00
ATOM 1276	N	ASN A	86	-0.929	8.622	-3.128	1.00	0.00
ATOM 1277	CA	ASN A	86	-0.984	10.079	-3.152	1.00	0.00
ATOM 1278	C	ASN A	86	0.083	10.685	-2.248	1.00	0.00
ATOM 1279	O	ASN A	86	0.545	10.047	-1.301	1.00	0.00
ATOM 1280	CB	ASN A	86	-2.369	10.565	-2.721	1.00	0.00
ATOM 1281	CG	ASN A	86	-3.299	10.780	-3.899	1.00	0.00
ATOM 1282	OD1	ASN A	86	-2.988	11.534	-4.820	1.00	0.00
ATOM 1283	ND2	ASN A	86	-4.450	10.116	-3.874	1.00	0.00
ATOM 1284	H	ASN A	86	-1.656	8.124	-2.699	1.00	0.00
ATOM 1285	HA	ASN A	86	-0.802	10.400	-4.168	1.00	0.00
ATOM 1286	1HB	ASN A	86	-2.814	9.831	-2.066	1.00	0.00
ATOM 1287	2HB	ASN A	86	-2.267	11.500	-2.191	1.00	0.00
ATOM 1288	1HD2	ASN A	86	-4.631	9.533	-3.107	1.00	0.00
ATOM 1289	2HD2	ASN A	86	-5.069	10.236	-4.623	1.00	0.00
ATOM 1290	N	PHE A	87	0.471	11.921	-2.548	1.00	0.00
ATOM 1291	CA	PHE A	87	1.486	12.615	-1.764	1.00	0.00
ATOM 1292	C	PHE A	87	1.114	14.081	-1.570	1.00	0.00
ATOM 1293	O	PHE A	87	0.401	14.665	-2.388	1.00	0.00
ATOM 1294	CB	PHE A	87	2.851	12.506	-2.446	1.00	0.00
ATOM 1295	CG	PHE A	87	3.605	11.263	-2.071	1.00	0.00
ATOM 1296	CD1	PHE A	87	3.169	10.018	-2.497	1.00	0.00

ATOM	1297	CD2	PHE	A	87	4.748	11.338	-1.291	1.00	0.00
ATOM	1298	CE1	PHE	A	87	3.857	8.871	-2.153	1.00	0.00
ATOM	1299	CE2	PHE	A	87	5.442	10.195	-0.943	1.00	0.00
ATOM	1300	CZ	PHE	A	87	4.997	8.960	-1.375	1.00	0.00
ATOM	1301	H	PHE	A	87	0.067	12.375	-3.315	1.00	0.00
ATOM	1302	HA	PHE	A	87	1.538	12.140	-0.796	1.00	0.00
ATOM	1303	1HB	PHE	A	87	2.712	12.501	-3.516	1.00	0.00
ATOM	1304	2HB	PHE	A	87	3.453	13.358	-2.168	1.00	0.00
ATOM	1305	HD1	PHE	A	87	2.281	9.949	-3.106	1.00	0.00
ATOM	1306	HD2	PHE	A	87	5.096	12.302	-0.955	1.00	0.00
ATOM	1307	HE1	PHE	A	87	3.505	7.907	-2.491	1.00	0.00
ATOM	1308	HE2	PHE	A	87	6.332	10.266	-0.335	1.00	0.00
ATOM	1309	HZ	PHE	A	87	5.537	8.065	-1.104	1.00	0.00
ATOM	1310	N	SER	A	88	1.601	14.670	-0.484	1.00	0.00
ATOM	1311	CA	SER	A	88	1.321	16.069	-0.182	1.00	0.00
ATOM	1312	C	SER	A	88	2.164	16.995	-1.055	1.00	0.00
ATOM	1313	O	SER	A	88	3.114	16.555	-1.703	1.00	0.00
ATOM	1314	CB	SER	A	88	1.588	16.354	1.299	1.00	0.00
ATOM	1315	OG	SER	A	88	0.402	16.752	1.964	1.00	0.00
ATOM	1316	H	SER	A	88	2.162	14.152	0.130	1.00	0.00
ATOM	1317	HA	SER	A	88	0.277	16.249	-0.391	1.00	0.00
ATOM	1318	1HB	SER	A	88	1.967	15.460	1.772	1.00	0.00
ATOM	1319	2HB	SER	A	88	2.319	17.144	1.387	1.00	0.00
ATOM	1320	HG	SER	A	88	0.307	16.251	2.778	1.00	0.00
ATOM	1321	N	PRO	A	89	1.828	18.296	-1.083	1.00	0.00
ATOM	1322	CA	PRO	A	89	2.562	19.283	-1.882	1.00	0.00
ATOM	1323	C	PRO	A	89	3.972	19.522	-1.354	1.00	0.00

ATOM 1324	O	PRO A	89	4.872	19.897	-2.105	1.00	0.00
ATOM 1325	CB	PRO A	89	1.717	20.553	-1.749	1.00	0.00
ATOM 1326	CG	PRO A	89	0.973	20.381	-0.470	1.00	0.00
ATOM 1327	CD	PRO A	89	0.711	18.907	-0.340	1.00	0.00
ATOM 1328	HA	PRO A	89	2.614	18.990	-2.922	1.00	0.00
ATOM 1329	1HB	PRO A	89	2.364	21.417	-1.717	1.00	0.00
ATOM 1330	2HB	PRO A	89	1.044	20.630	-2.589	1.00	0.00
ATOM 1331	1HG	PRO A	89	1.576	20.729	0.355	1.00	0.00
ATOM 1332	2HG	PRO A	89	0.041	20.925	-0.512	1.00	0.00
ATOM 1333	1HD	PRO A	89	0.730	18.610	0.698	1.00	0.00
ATOM 1334	2HD	PRO A	89	-0.236	18.651	-0.790	1.00	0.00
ATOM 1335	N	LEU A	90	4.158	19.304	-0.056	1.00	0.00
ATOM 1336	CA	LEU A	90	5.459	19.496	0.574	1.00	0.00
ATOM 1337	C	LEU A	90	6.511	18.592	-0.061	1.00	0.00
ATOM 1338	O	LEU A	90	7.693	18.930	-0.099	1.00	0.00
ATOM 1339	CB	LEU A	90	5.369	19.220	2.075	1.00	0.00
ATOM 1340	CG	LEU A	90	4.958	20.420	2.930	1.00	0.00
ATOM 1341	CD1	LEU A	90	3.442	20.516	3.020	1.00	0.00
ATOM 1342	CD2	LEU A	90	5.571	20.319	4.319	1.00	0.00
ATOM 1343	H	LEU A	90	3.401	19.006	0.492	1.00	0.00
ATOM 1344	HA	LEU A	90	5.750	20.526	0.424	1.00	0.00
ATOM 1345	1HB	LEU A	90	4.651	18.428	2.232	1.00	0.00
ATOM 1346	2HB	LEU A	90	6.335	18.880	2.416	1.00	0.00
ATOM 1347	HG	LEU A	90	5.322	21.325	2.467	1.00	0.00
ATOM 1348	1HD1	LEU A	90	3.169	21.085	3.897	1.00	0.00
ATOM 1349	2HD1	LEU A	90	3.022	19.524	3.090	1.00	0.00
ATOM 1350	3HD1	LEU A	90	3.060	21.008	2.138	1.00	0.00

ATOM	1351	1HD2	LEU	A	90	4.851	19.890	4.999	1.00	0.00
ATOM	1352	2HD2	LEU	A	90	5.848	21.305	4.662	1.00	0.00
ATOM	1353	3HD2	LEU	A	90	6.449	19.692	4.279	1.00	0.00
ATOM	1354	N	ALA	A	91	6.072	17.439	-0.559	1.00	0.00
ATOM	1355	CA	ALA	A	91	6.977	16.486	-1.193	1.00	0.00
ATOM	1356	C	ALA	A	91	7.719	17.130	-2.360	1.00	0.00
ATOM	1357	O	ALA	A	91	7.357	18.215	-2.815	1.00	0.00
ATOM	1358	CB	ALA	A	91	6.207	15.262	-1.665	1.00	0.00
ATOM	1359	H	ALA	A	91	5.118	17.224	-0.500	1.00	0.00
ATOM	1360	HA	ALA	A	91	7.697	16.167	-0.453	1.00	0.00
ATOM	1361	1HB	ALA	A	91	5.930	15.389	-2.701	1.00	0.00
ATOM	1362	2HB	ALA	A	91	5.317	15.144	-1.067	1.00	0.00
ATOM	1363	3HB	ALA	A	91	6.829	14.385	-1.565	1.00	0.00
ATOM	1364	N	ARG	A	92	8.761	16.458	-2.839	1.00	0.00
ATOM	1365	CA	ARG	A	92	9.552	16.969	-3.951	1.00	0.00
ATOM	1366	C	ARG	A	92	10.529	15.915	-4.460	1.00	0.00
ATOM	1367	O	ARG	A	92	11.319	15.364	-3.694	1.00	0.00
ATOM	1368	CB	ARG	A	92	10.313	18.226	-3.525	1.00	0.00
ATOM	1369	CG	ARG	A	92	10.333	19.316	-4.585	1.00	0.00
ATOM	1370	CD	ARG	A	92	10.384	20.700	-3.959	1.00	0.00
ATOM	1371	NE	ARG	A	92	11.028	21.674	-4.838	1.00	0.00
ATOM	1372	CZ	ARG	A	92	10.455	22.182	-5.927	1.00	0.00
ATOM	1373	NH1	ARG	A	92	9.231	21.808	-6.276	1.00	0.00
ATOM	1374	NH2	ARG	A	92	11.109	23.064	-6.669	1.00	0.00
ATOM	1375	H	ARG	A	92	9.004	15.598	-2.434	1.00	0.00
ATOM	1376	HA	ARG	A	92	8.871	17.227	-4.749	1.00	0.00
ATOM	1377	1HB	ARG	A	92	9.850	18.628	-2.635	1.00	0.00

ATOM	1378	2HB	ARG	A	92	11.334	17.956	-3.298	1.00	0.00
ATOM	1379	1HG	ARG	A	92	11.204	19.181	-5.209	1.00	0.00
ATOM	1380	2HG	ARG	A	92	9.440	19.235	-5.186	1.00	0.00
ATOM	1381	1HD	ARG	A	92	9.376	21.026	-3.753	1.00	0.00
ATOM	1382	2HD	ARG	A	92	10.939	20.642	-3.034	1.00	0.00
ATOM	1383	HE	ARG	A	92	11.933	21.966	-4.604	1.00	0.00
ATOM	1384	1HH1	ARG	A	92	8.731	21.142	-5.721	1.00	0.00
ATOM	1385	2HH1	ARG	A	92	8.805	22.193	-7.096	1.00	0.00
ATOM	1386	1HH2	ARG	A	92	12.032	23.349	-6.411	1.00	0.00
ATOM	1387	2HH2	ARG	A	92	10.679	23.446	-7.488	1.00	0.00
ATOM	1388	N	ARG	A	93	10.474	15.644	-5.761	1.00	0.00
ATOM	1389	CA	ARG	A	93	11.356	14.660	-6.377	1.00	0.00
ATOM	1390	C	ARG	A	93	11.113	13.267	-5.800	1.00	0.00
ATOM	1391	O	ARG	A	93	12.055	12.540	-5.485	1.00	0.00
ATOM	1392	CB	ARG	A	93	12.819	15.065	-6.180	1.00	0.00
ATOM	1393	CG	ARG	A	93	13.638	15.034	-7.462	1.00	0.00
ATOM	1394	CD	ARG	A	93	14.506	13.789	-7.544	1.00	0.00
ATOM	1395	NE	ARG	A	93	14.252	13.024	-8.763	1.00	0.00
ATOM	1396	CZ	ARG	A	93	15.097	12.126	-9.263	1.00	0.00
ATOM	1397	NH1	ARG	A	93	16.250	11.875	-8.655	1.00	0.00
ATOM	1398	NH2	ARG	A	93	14.788	11.475	-10.377	1.00	0.00
ATOM	1399	H	ARG	A	93	9.824	16.119	-6.320	1.00	0.00
ATOM	1400	HA	ARG	A	93	11.138	14.639	-7.435	1.00	0.00
ATOM	1401	1HB	ARG	A	93	12.851	16.069	-5.784	1.00	0.00
ATOM	1402	2HB	ARG	A	93	13.278	14.394	-5.469	1.00	0.00
ATOM	1403	1HG	ARG	A	93	12.965	15.047	-8.306	1.00	0.00
ATOM	1404	2HG	ARG	A	93	14.272	15.908	-7.493	1.00	0.00

ATOM 1405	1HD	ARG	A	93	15.544	14.088	-7.528	1.00	0.00
ATOM 1406	2HD	ARG	A	93	14.300	13.164	-6.688	1.00	0.00
ATOM 1407	HE	ARG	A	93	13.408	13.188	-9.232	1.00	0.00
ATOM 1408	1HH1	ARG	A	93	16.489	12.361	-7.815	1.00	0.00
ATOM 1409	2HH1	ARG	A	93	16.880	11.199	-9.037	1.00	0.00
ATOM 1410	1HH2	ARG	A	93	13.920	11.660	-10.839	1.00	0.00
ATOM 1411	2HH2	ARG	A	93	15.422	10.801	-10.755	1.00	0.00
ATOM 1412	N	VAL	A	94	9.842	12.900	-5.666	1.00	0.00
ATOM 1413	CA	VAL	A	94	9.475	11.595	-5.130	1.00	0.00
ATOM 1414	C	VAL	A	94	9.471	10.533	-6.226	1.00	0.00
ATOM 1415	O	VAL	A	94	8.451	10.299	-6.874	1.00	0.00
ATOM 1416	CB	VAL	A	94	8.088	11.632	-4.460	1.00	0.00
ATOM 1417	CG1	VAL	A	94	7.776	10.299	-3.792	1.00	0.00
ATOM 1418	CG2	VAL	A	94	8.010	12.769	-3.452	1.00	0.00
ATOM 1419	H	VAL	A	94	9.134	13.522	-5.937	1.00	0.00
ATOM 1420	HA	VAL	A	94	10.206	11.324	-4.382	1.00	0.00
ATOM 1421	HB	VAL	A	94	7.345	11.806	-5.225	1.00	0.00
ATOM 1422	1HG1	VAL	A	94	8.417	9.533	-4.203	1.00	0.00
ATOM 1423	2HG1	VAL	A	94	6.743	10.040	-3.972	1.00	0.00
ATOM 1424	3HG1	VAL	A	94	7.948	10.381	-2.729	1.00	0.00
ATOM 1425	1HG2	VAL	A	94	8.159	12.378	-2.456	1.00	0.00
ATOM 1426	2HG2	VAL	A	94	7.039	13.238	-3.512	1.00	0.00
ATOM 1427	3HG2	VAL	A	94	8.776	13.498	-3.671	1.00	0.00
ATOM 1428	N	ASP	A	95	10.618	9.893	-6.427	1.00	0.00
ATOM 1429	CA	ASP	A	95	10.746	8.856	-7.445	1.00	0.00
ATOM 1430	C	ASP	A	95	9.847	7.666	-7.125	1.00	0.00
ATOM 1431	O	ASP	A	95	9.596	7.361	-5.959	1.00	0.00



ATOM 1432	CB	ASP	A	95	12.201	8.397	-7.555	1.00	0.00
ATOM 1433	CG	ASP	A	95	13.085	9.434	-8.219	1.00	0.00
ATOM 1434	OD1	ASP	A	95	13.513	10.380	-7.525	1.00	0.00
ATOM 1435	OD2	ASP	A	95	13.350	9.300	-9.432	1.00	0.00
ATOM 1436	H	ASP	A	95	11.397	10.123	-5.879	1.00	0.00
ATOM 1437	HA	ASP	A	95	10.439	9.279	-8.390	1.00	0.00
ATOM 1438	1HB	ASP	A	95	12.587	8.202	-6.566	1.00	0.00
ATOM 1439	2HB	ASP	A	95	12.242	7.488	-8.138	1.00	0.00
ATOM 1440	N	ARG	A	96	9.366	6.997	-8.168	1.00	0.00
ATOM 1441	CA	ARG	A	96	8.495	5.838	-7.998	1.00	0.00
ATOM 1442	C	ARG	A	96	9.193	4.746	-7.193	1.00	0.00
ATOM 1443	O	ARG	A	96	8.553	4.007	-6.445	1.00	0.00
ATOM 1444	CB	ARG	A	96	8.071	5.289	-9.362	1.00	0.00
ATOM 1445	CG	ARG	A	96	9.242	4.936	-10.266	1.00	0.00
ATOM 1446	CD	ARG	A	96	8.769	4.396	-11.605	1.00	0.00
ATOM 1447	NE	ARG	A	96	9.856	4.318	-12.579	1.00	0.00
ATOM 1448	CZ	ARG	A	96	9.746	3.732	-13.768	1.00	0.00
ATOM 1449	NH1	ARG	A	96	8.600	3.172	-14.137	1.00	0.00
ATOM 1450	NH2	ARG	A	96	10.784	3.708	-14.593	1.00	0.00
ATOM 1451	H	ARG	A	96	9.602	7.288	-9.073	1.00	0.00
ATOM 1452	HA	ARG	A	96	7.616	6.160	-7.460	1.00	0.00
ATOM 1453	1HB	ARG	A	96	7.480	4.398	-9.210	1.00	0.00
ATOM 1454	2HB	ARG	A	96	7.467	6.030	-9.863	1.00	0.00
ATOM 1455	1HG	ARG	A	96	9.833	5.823	-10.436	1.00	0.00
ATOM 1456	2HG	ARG	A	96	9.847	4.186	-9.778	1.00	0.00
ATOM 1457	1HD	ARG	A	96	8.361	3.408	-11.457	1.00	0.00
ATOM 1458	2HD	ARG	A	96	7.999	5.048	-11.991	1.00	0.00

ATOM 1459	HE	ARG	A	96	10.713	4.725	-12.333	1.00	0.00
ATOM 1460	1HH1	ARG	A	96	7.813	3.188	-13.520	1.00	0.00
ATOM 1461	2HH1	ARG	A	96	8.524	2.734	-15.033	1.00	0.00
ATOM 1462	1HH2	ARG	A	96	11.649	4.128	-14.321	1.00	0.00
ATOM 1463	2HH2	ARG	A	96	10.701	3.267	-15.487	1.00	0.00
ATOM 1464	N	VAL	A	97	10.509	4.653	-7.351	1.00	0.00
ATOM 1465	CA	VAL	A	97	11.296	3.652	-6.640	1.00	0.00
ATOM 1466	C	VAL	A	97	11.166	3.819	-5.128	1.00	0.00
ATOM 1467	O	VAL	A	97	11.310	2.858	-4.374	1.00	0.00
ATOM 1468	CB	VAL	A	97	12.785	3.732	-7.025	1.00	0.00
ATOM 1469	CG1	VAL	A	97	13.549	2.547	-6.455	1.00	0.00
ATOM 1470	CG2	VAL	A	97	12.944	3.802	-8.537	1.00	0.00
ATOM 1471	H	VAL	A	97	10.962	5.271	-7.961	1.00	0.00
ATOM 1472	HA	VAL	A	97	10.925	2.676	-6.918	1.00	0.00
ATOM 1473	HB	VAL	A	97	13.198	4.635	-6.600	1.00	0.00
ATOM 1474	1HG1	VAL	A	97	14.352	2.280	-7.128	1.00	0.00
ATOM 1475	2HG1	VAL	A	97	12.879	1.707	-6.343	1.00	0.00
ATOM 1476	3HG1	VAL	A	97	13.960	2.812	-5.493	1.00	0.00
ATOM 1477	1HG2	VAL	A	97	12.088	3.342	-9.009	1.00	0.00
ATOM 1478	2HG2	VAL	A	97	13.841	3.277	-8.828	1.00	0.00
ATOM 1479	3HG2	VAL	A	97	13.013	4.834	-8.844	1.00	0.00
ATOM 1480	N	ALA	A	98	10.894	5.046	-4.693	1.00	0.00
ATOM 1481	CA	ALA	A	98	10.746	5.337	-3.272	1.00	0.00
ATOM 1482	C	ALA	A	98	9.621	4.515	-2.655	1.00	0.00
ATOM 1483	O	ALA	A	98	9.851	3.705	-1.758	1.00	0.00
ATOM 1484	CB	ALA	A	98	10.494	6.822	-3.064	1.00	0.00
ATOM 1485	H	ALA	A	98	10.792	5.772	-5.342	1.00	0.00

ATOM 1486	HA	ALA	A	98	11.674	5.082	-2.783	1.00	0.00
ATOM 1487	1HB	ALA	A	98	10.836	7.370	-3.929	1.00	0.00
ATOM 1488	2HB	ALA	A	98	11.029	7.158	-2.188	1.00	0.00
ATOM 1489	3HB	ALA	A	98	9.436	6.991	-2.927	1.00	0.00
ATOM 1490	N	ILE	A	99	8.402	4.728	-3.142	1.00	0.00
ATOM 1491	CA	ILE	A	99	7.241	4.005	-2.637	1.00	0.00
ATOM 1492	C	ILE	A	99	7.314	2.526	-3.005	1.00	0.00
ATOM 1493	O	ILE	A	99	6.727	1.679	-2.331	1.00	0.00
ATOM 1494	CB	ILE	A	99	5.923	4.597	-3.180	1.00	0.00
ATOM 1495	CG1	ILE	A	99	5.901	6.114	-2.991	1.00	0.00
ATOM 1496	CG2	ILE	A	99	4.729	3.953	-2.489	1.00	0.00
ATOM 1497	CD1	ILE	A	99	5.104	6.843	-4.051	1.00	0.00
ATOM 1498	H	ILE	A	99	8.282	5.386	-3.858	1.00	0.00
ATOM 1499	HA	ILE	A	99	7.235	4.097	-1.560	1.00	0.00
ATOM 1500	HB	ILE	A	99	5.858	4.373	-4.234	1.00	0.00
ATOM 1501	1HG1	ILE	A	99	5.462	6.344	-2.032	1.00	0.00
ATOM 1502	2HG1	ILE	A	99	6.913	6.492	-3.017	1.00	0.00
ATOM 1503	1HG2	ILE	A	99	4.050	4.722	-2.151	1.00	0.00
ATOM 1504	2HG2	ILE	A	99	5.070	3.377	-1.641	1.00	0.00
ATOM 1505	3HG2	ILE	A	99	4.218	3.302	-3.184	1.00	0.00
ATOM 1506	1HD1	ILE	A	99	5.419	6.512	-5.029	1.00	0.00
ATOM 1507	2HD1	ILE	A	99	5.270	7.906	-3.960	1.00	0.00
ATOM 1508	3HD1	ILE	A	99	4.053	6.631	-3.921	1.00	0.00
ATOM 1509	N	TYR	A	100	8.039	2.222	-4.077	1.00	0.00
ATOM 1510	CA	TYR	A	100	8.191	0.846	-4.536	1.00	0.00
ATOM 1511	C	TYR	A	100	9.144	0.071	-3.633	1.00	0.00
ATOM 1512	O	TYR	A	100	8.889	-1.083	-3.289	1.00	0.00

ATOM	1513	CB	TYR A 100	8.708	0.824	-5.975	1.00	0.00
ATOM	1514	CG	TYR A 100	8.718	-0.555	-6.597	1.00	0.00
ATOM	1515	CD1	TYR A 100	9.909	-1.153	-6.988	1.00	0.00
ATOM	1516	CD2	TYR A 100	7.535	-1.257	-6.794	1.00	0.00
ATOM	1517	CE1	TYR A 100	9.922	-2.412	-7.558	1.00	0.00
ATOM	1518	CE2	TYR A 100	7.540	-2.516	-7.363	1.00	0.00
ATOM	1519	CZ	TYR A 100	8.736	-3.089	-7.743	1.00	0.00
ATOM	1520	OH	TYR A 100	8.744	-4.343	-8.309	1.00	0.00
ATOM	1521	H	TYR A 100	8.483	2.941	-4.573	1.00	0.00
ATOM	1522	HA	TYR A 100	7.220	0.376	-4.504	1.00	0.00
ATOM	1523	1HB	TYR A 100	8.083	1.457	-6.585	1.00	0.00
ATOM	1524	2HB	TYR A 100	9.719	1.203	-5.992	1.00	0.00
ATOM	1525	HD1	TYR A 100	10.837	-0.620	-6.840	1.00	0.00
ATOM	1526	HD2	TYR A 100	6.600	-0.806	-6.496	1.00	0.00
ATOM	1527	HE1	TYR A 100	10.858	-2.860	-7.855	1.00	0.00
ATOM	1528	HE2	TYR A 100	6.610	-3.046	-7.508	1.00	0.00
ATOM	1529	HH	TYR A 100	8.529	-4.274	-9.242	1.00	0.00
ATOM	1530	N	GLU A 101	10.246	0.712	-3.256	1.00	0.00
ATOM	1531	CA	GLU A 101	11.242	0.081	-2.397	1.00	0.00
ATOM	1532	C	GLU A 101	10.761	0.018	-0.950	1.00	0.00
ATOM	1533	O	GLU A 101	10.745	-1.050	-0.338	1.00	0.00
ATOM	1534	CB	GLU A 101	12.565	0.845	-2.473	1.00	0.00
ATOM	1535	CG	GLU A 101	13.453	0.411	-3.627	1.00	0.00
ATOM	1536	CD	GLU A 101	14.901	0.233	-3.215	1.00	0.00
ATOM	1537	OE1	GLU A 101	15.654	1.230	-3.250	1.00	0.00
ATOM	1538	OE2	GLU A 101	15.283	-0.901	-2.857	1.00	0.00
ATOM	1539	H	GLU A 101	10.395	1.629	-3.566	1.00	0.00

ATOM 1540	HA	GLU A 101	11.398	-0.925	-2.755	1.00	0.00
ATOM 1541	1HB	GLU A 101	12.353	1.898	-2.585	1.00	0.00
ATOM 1542	2HB	GLU A 101	13.107	0.693	-1.552	1.00	0.00
ATOM 1543	1HG	GLU A 101	13.087	-0.530	-4.012	1.00	0.00
ATOM 1544	2HG	GLU A 101	13.403	1.160	-4.403	1.00	0.00
ATOM 1545	N	GLU A 102	10.372	1.168	-0.409	1.00	0.00
ATOM 1546	CA	GLU A 102	9.892	1.245	0.967	1.00	0.00
ATOM 1547	C	GLU A 102	8.740	0.272	1.205	1.00	0.00
ATOM 1548	O	GLU A 102	8.552	-0.225	2.315	1.00	0.00
ATOM 1549	CB	GLU A 102	9.447	2.672	1.294	1.00	0.00
ATOM 1550	CG	GLU A 102	10.499	3.485	2.030	1.00	0.00
ATOM 1551	CD	GLU A 102	11.805	3.577	1.267	1.00	0.00
ATOM 1552	OE1	GLU A 102	11.764	3.567	0.017	1.00	0.00
ATOM 1553	OE2	GLU A 102	12.868	3.658	1.916	1.00	0.00
ATOM 1554	H	GLU A 102	10.410	1.986	-0.948	1.00	0.00
ATOM 1555	HA	GLU A 102	10.711	0.977	1.617	1.00	0.00
ATOM 1556	1HB	GLU A 102	9.209	3.182	0.372	1.00	0.00
ATOM 1557	2HB	GLU A 102	8.560	2.630	1.910	1.00	0.00
ATOM 1558	1HG	GLU A 102	10.120	4.484	2.186	1.00	0.00
ATOM 1559	2HG	GLU A 102	10.690	3.019	2.987	1.00	0.00
ATOM 1560	N	PHE A 103	7.970	0.006	0.155	1.00	0.00
ATOM 1561	CA	PHE A 103	6.835	-0.905	0.252	1.00	0.00
ATOM 1562	C	PHE A 103	7.295	-2.359	0.213	1.00	0.00
ATOM 1563	O	PHE A 103	6.836	-3.186	1.001	1.00	0.00
ATOM 1564	CB	PHE A 103	5.846	-0.642	-0.884	1.00	0.00
ATOM 1565	CG	PHE A 103	4.584	-1.451	-0.781	1.00	0.00
ATOM 1566	CD1	PHE A 103	4.305	-2.445	-1.707	1.00	0.00

ATOM	1567	CD2	PHE A 103	3.677	-1.218	0.239	1.00	0.00
ATOM	1568	CE1	PHE A 103	3.147	-3.191	-1.614	1.00	0.00
ATOM	1569	CE2	PHE A 103	2.516	-1.960	0.336	1.00	0.00
ATOM	1570	CZ	PHE A 103	2.250	-2.947	-0.592	1.00	0.00
ATOM	1571	H	PHE A 103	8.167	0.433	-0.705	1.00	0.00
ATOM	1572	HA	PHE A 103	6.343	-0.722	1.195	1.00	0.00
ATOM	1573	1HB	PHE A 103	5.572	0.402	-0.878	1.00	0.00
ATOM	1574	2HB	PHE A 103	6.319	-0.880	-1.826	1.00	0.00
ATOM	1575	HD1	PHE A 103	5.006	-2.636	-2.506	1.00	0.00
ATOM	1576	HD2	PHE A 103	3.884	-0.445	0.965	1.00	0.00
ATOM	1577	HE1	PHE A 103	2.941	-3.962	-2.342	1.00	0.00
ATOM	1578	HE2	PHE A 103	1.817	-1.768	1.137	1.00	0.00
ATOM	1579	HZ	PHE A 103	1.343	-3.530	-0.519	1.00	0.00
ATOM	1580	N	LEU A 104	8.200	-2.665	-0.711	1.00	0.00
ATOM	1581	CA	LEU A 104	8.718	-4.022	-0.858	1.00	0.00
ATOM	1582	C	LEU A 104	9.418	-4.488	0.416	1.00	0.00
ATOM	1583	O	LEU A 104	9.113	-5.556	0.946	1.00	0.00
ATOM	1584	CB	LEU A 104	9.689	-4.092	-2.037	1.00	0.00
ATOM	1585	CG	LEU A 104	9.042	-3.956	-3.417	1.00	0.00
ATOM	1586	CD1	LEU A 104	10.020	-3.342	-4.406	1.00	0.00
ATOM	1587	CD2	LEU A 104	8.557	-5.310	-3.913	1.00	0.00
ATOM	1588	H	LEU A 104	8.524	-1.962	-1.312	1.00	0.00
ATOM	1589	HA	LEU A 104	7.882	-4.675	-1.054	1.00	0.00
ATOM	1590	1HB	LEU A 104	10.418	-3.303	-1.925	1.00	0.00
ATOM	1591	2HB	LEU A 104	10.202	-5.041	-1.999	1.00	0.00
ATOM	1592	HG	LEU A 104	8.187	-3.299	-3.344	1.00	0.00
ATOM	1593	1HD1	LEU A 104	9.479	-2.743	-5.124	1.00	0.00

ATOM 1594	2HD1	LEU	A	104	10.552	-4.128	-4.922	1.00	0.00
ATOM 1595	3HD1	LEU	A	104	10.725	-2.719	-3.876	1.00	0.00
ATOM 1596	1HD2	LEU	A	104	7.650	-5.180	-4.483	1.00	0.00
ATOM 1597	2HD2	LEU	A	104	8.363	-5.954	-3.069	1.00	0.00
ATOM 1598	3HD2	LEU	A	104	9.315	-5.756	-4.539	1.00	0.00
ATOM 1599	N	ARG	A	105	10.361	-3.685	0.897	1.00	0.00
ATOM 1600	CA	ARG	A	105	11.111	-4.019	2.104	1.00	0.00
ATOM 1601	C	ARG	A	105	10.176	-4.287	3.282	1.00	0.00
ATOM 1602	O	ARG	A	105	10.377	-5.236	4.040	1.00	0.00
ATOM 1603	CB	ARG	A	105	12.081	-2.888	2.455	1.00	0.00
ATOM 1604	CG	ARG	A	105	13.515	-3.163	2.027	1.00	0.00
ATOM 1605	CD	ARG	A	105	14.504	-2.865	3.144	1.00	0.00
ATOM 1606	NE	ARG	A	105	15.184	-4.072	3.609	1.00	0.00
ATOM 1607	CZ	ARG	A	105	15.812	-4.165	4.780	1.00	0.00
ATOM 1608	NH1	ARG	A	105	15.846	-3.128	5.607	1.00	0.00
ATOM 1609	NH2	ARG	A	105	16.405	-5.300	5.125	1.00	0.00
ATOM 1610	H	ARG	A	105	10.563	-2.849	0.426	1.00	0.00
ATOM 1611	HA	ARG	A	105	11.679	-4.915	1.902	1.00	0.00
ATOM 1612	1HB	ARG	A	105	11.751	-1.983	1.968	1.00	0.00
ATOM 1613	2HB	ARG	A	105	12.070	-2.737	3.525	1.00	0.00
ATOM 1614	1HG	ARG	A	105	13.605	-4.203	1.751	1.00	0.00
ATOM 1615	2HG	ARG	A	105	13.751	-2.542	1.176	1.00	0.00
ATOM 1616	1HD	ARG	A	105	15.242	-2.167	2.778	1.00	0.00
ATOM 1617	2HD	ARG	A	105	13.971	-2.422	3.973	1.00	0.00
ATOM 1618	HE	ARG	A	105	15.173	-4.853	3.018	1.00	0.00
ATOM 1619	1HH1	ARG	A	105	15.401	-2.270	5.353	1.00	0.00
ATOM 1620	2HH1	ARG	A	105	16.319	-3.205	6.485	1.00	0.00

ATOM 1621	1HH2	ARG	A	105	16.382	-6.085	4.505	1.00	0.00
ATOM 1622	2HH2	ARG	A	105	16.877	-5.370	6.004	1.00	0.00
ATOM 1623	N	MET	A	106	9.159	-3.446	3.430	1.00	0.00
ATOM 1624	CA	MET	A	106	8.200	-3.595	4.519	1.00	0.00
ATOM 1625	C	MET	A	106	7.285	-4.794	4.290	1.00	0.00
ATOM 1626	O	MET	A	106	6.799	-5.405	5.243	1.00	0.00
ATOM 1627	CB	MET	A	106	7.363	-2.323	4.665	1.00	0.00
ATOM 1628	CG	MET	A	106	6.792	-2.132	6.062	1.00	0.00
ATOM 1629	SD	MET	A	106	7.672	-0.874	7.009	1.00	0.00
ATOM 1630	CE	MET	A	106	7.365	0.579	6.009	1.00	0.00
ATOM 1631	H	MET	A	106	9.052	-2.707	2.796	1.00	0.00
ATOM 1632	HA	MET	A	106	8.757	-3.752	5.430	1.00	0.00
ATOM 1633	1HB	MET	A	106	7.981	-1.470	4.431	1.00	0.00
ATOM 1634	2HB	MET	A	106	6.541	-2.364	3.966	1.00	0.00
ATOM 1635	1HG	MET	A	106	5.757	-1.837	5.975	1.00	0.00
ATOM 1636	2HG	MET	A	106	6.852	-3.070	6.591	1.00	0.00
ATOM 1637	1HE	MET	A	106	7.771	0.430	5.020	1.00	0.00
ATOM 1638	2HE	MET	A	106	7.836	1.437	6.467	1.00	0.00
ATOM 1639	3HE	MET	A	106	6.300	0.749	5.939	1.00	0.00
ATOM 1640	N	THR	A	107	7.051	-5.125	3.025	1.00	0.00
ATOM 1641	CA	THR	A	107	6.189	-6.251	2.678	1.00	0.00
ATOM 1642	C	THR	A	107	6.994	-7.539	2.506	1.00	0.00
ATOM 1643	O	THR	A	107	6.494	-8.522	1.960	1.00	0.00
ATOM 1644	CB	THR	A	107	5.414	-5.949	1.397	1.00	0.00
ATOM 1645	OG1	THR	A	107	6.299	-5.617	0.342	1.00	0.00
ATOM 1646	CG2	THR	A	107	4.431	-4.808	1.548	1.00	0.00
ATOM 1647	H	THR	A	107	7.463	-4.600	2.309	1.00	0.00



ATOM 1648	HA	THR A 107	5.487	-6.390	3.486	1.00	0.00
ATOM 1649	HB	THR A 107	4.857	-6.828	1.108	1.00	0.00
ATOM 1650	HG1	THR A 107	6.685	-4.754	0.507	1.00	0.00
ATOM 1651	1HG2	THR A 107	3.427	-5.174	1.388	1.00	0.00
ATOM 1652	2HG2	THR A 107	4.654	-4.041	0.820	1.00	0.00
ATOM 1653	3HG2	THR A 107	4.510	-4.394	2.543	1.00	0.00
ATOM 1654	N	HIS A 108	8.239	-7.532	2.976	1.00	0.00
ATOM 1655	CA	HIS A 108	9.103	-8.704	2.873	1.00	0.00
ATOM 1656	C	HIS A 108	9.240	-9.164	1.425	1.00	0.00
ATOM 1657	O	HIS A 108	8.593	-10.123	1.004	1.00	0.00
ATOM 1658	CB	HIS A 108	8.552	-9.843	3.732	1.00	0.00
ATOM 1659	CG	HIS A 108	8.927	-9.739	5.177	1.00	0.00
ATOM 1660	ND1	HIS A 108	8.028	-9.399	6.166	1.00	0.00
ATOM 1661	CD2	HIS A 108	10.114	-9.931	5.802	1.00	0.00
ATOM 1662	CE1	HIS A 108	8.644	-9.387	7.335	1.00	0.00
ATOM 1663	NE2	HIS A 108	9.911	-9.706	7.141	1.00	0.00
ATOM 1664	H	HIS A 108	8.585	-6.722	3.405	1.00	0.00
ATOM 1665	HA	HIS A 108	10.080	-8.428	3.243	1.00	0.00
ATOM 1666	1HB	HIS A 108	7.475	-9.845	3.668	1.00	0.00
ATOM 1667	2HB	HIS A 108	8.932	-10.782	3.356	1.00	0.00
ATOM 1668	HD1	HIS A 108	7.079	-9.196	6.031	1.00	0.00
ATOM 1669	HD2	HIS A 108	11.047	-10.209	5.333	1.00	0.00
ATOM 1670	HE1	HIS A 108	8.190	-9.156	8.287	1.00	0.00
ATOM 1671	HE2	HIS A 108	10.570	-9.856	7.850	1.00	0.00
ATOM 1672	N	ASN A 109	10.091	-8.478	0.668	1.00	0.00
ATOM 1673	CA	ASN A 109	10.320	-8.819	-0.732	1.00	0.00
ATOM 1674	C	ASN A 109	9.022	-8.773	-1.534	1.00	0.00

ATOM 1675	O	ASN A 109	8.868	-9.487	-2.525	1.00	0.00
ATOM 1676	CB	ASN A 109	10.948	-10.210	-0.843	1.00	0.00
ATOM 1677	CG	ASN A 109	12.118	-10.394	0.104	1.00	0.00
ATOM 1678	OD1	ASN A 109	12.028	-10.078	1.290	1.00	0.00
ATOM 1679	ND2	ASN A 109	13.226	-10.907	-0.418	1.00	0.00
ATOM 1680	H	ASN A 109	10.580	-7.726	1.062	1.00	0.00
ATOM 1681	HA	ASN A 109	11.006	-8.093	-1.141	1.00	0.00
ATOM 1682	1HB	ASN A 109	10.202	-10.954	-0.610	1.00	0.00
ATOM 1683	2HB	ASN A 109	11.298	-10.360	-1.854	1.00	0.00
ATOM 1684	1HD2	ASN A 109	13.227	-11.134	-1.372	1.00	0.00
ATOM 1685	2HD2	ASN A 109	13.998	-11.036	0.171	1.00	0.00
ATOM 1686	N	GLY A 110	8.091	-7.927	-1.103	1.00	0.00
ATOM 1687	CA	GLY A 110	6.822	-7.805	-1.797	1.00	0.00
ATOM 1688	C	GLY A 110	6.086	-9.126	-1.904	1.00	0.00
ATOM 1689	O	GLY A 110	5.507	-9.438	-2.945	1.00	0.00
ATOM 1690	H	GLY A 110	8.269	-7.380	-0.309	1.00	0.00
ATOM 1691	1HA	GLY A 110	6.198	-7.103	-1.264	1.00	0.00
ATOM 1692	2HA	GLY A 110	7.004	-7.426	-2.792	1.00	0.00
ATOM 1693	N	THR A 111	6.111	-9.906	-0.828	1.00	0.00
ATOM 1694	CA	THR A 111	5.441	-11.202	-0.810	1.00	0.00
ATOM 1695	C	THR A 111	4.375	-11.257	0.281	1.00	0.00
ATOM 1696	O	THR A 111	3.350	-11.920	0.123	1.00	0.00
ATOM 1697	CB	THR A 111	6.459	-12.324	-0.599	1.00	0.00
ATOM 1698	OG1	THR A 111	7.179	-12.129	0.605	1.00	0.00
ATOM 1699	CG2	THR A 111	7.466	-12.437	-1.723	1.00	0.00
ATOM 1700	H	THR A 111	6.592	-9.604	-0.030	1.00	0.00
ATOM 1701	HA	THR A 111	4.964	-11.340	-1.768	1.00	0.00

ATOM 1702	HB	THR A 111	5.932	-13.264	-0.531	1.00	0.00
ATOM 1703	HG1	THR A 111	6.562	-12.034	1.335	1.00	0.00
ATOM 1704	1HG2	THR A 111	8.327	-12.992	-1.381	1.00	0.00
ATOM 1705	2HG2	THR A 111	7.774	-11.449	-2.032	1.00	0.00
ATOM 1706	3HG2	THR A 111	7.016	-12.952	-2.559	1.00	0.00
ATOM 1707	N	GLN A 112	4.622	-10.565	1.388	1.00	0.00
ATOM 1708	CA	GLN A 112	3.679	-10.546	2.500	1.00	0.00
ATOM 1709	C	GLN A 112	3.450	-9.127	3.008	1.00	0.00
ATOM 1710	O	GLN A 112	4.365	-8.485	3.523	1.00	0.00
ATOM 1711	CB	GLN A 112	4.189	-11.431	3.640	1.00	0.00
ATOM 1712	CG	GLN A 112	3.137	-11.732	4.695	1.00	0.00
ATOM 1713	CD	GLN A 112	3.722	-11.826	6.090	1.00	0.00
ATOM 1714	OE1	GLN A 112	4.785	-11.270	6.368	1.00	0.00
ATOM 1715	NE2	GLN A 112	3.030	-12.531	6.977	1.00	0.00
ATOM 1716	H	GLN A 112	5.457	-10.057	1.461	1.00	0.00
ATOM 1717	HA	GLN A 112	2.740	-10.942	2.143	1.00	0.00
ATOM 1718	1HB	GLN A 112	4.531	-12.369	3.226	1.00	0.00
ATOM 1719	2HB	GLN A 112	5.020	-10.937	4.120	1.00	0.00
ATOM 1720	1HG	GLN A 112	2.398	-10.945	4.682	1.00	0.00
ATOM 1721	2HG	GLN A 112	2.664	-12.673	4.455	1.00	0.00
ATOM 1722	1HE2	GLN A 112	2.191	-12.946	6.685	1.00	0.00
ATOM 1723	2HE2	GLN A 112	3.385	-12.608	7.886	1.00	0.00
ATOM 1724	N	LEU A 113	2.219	-8.644	2.863	1.00	0.00
ATOM 1725	CA	LEU A 113	1.865	-7.302	3.313	1.00	0.00
ATOM 1726	C	LEU A 113	1.162	-7.357	4.665	1.00	0.00
ATOM 1727	O	LEU A 113	-0.045	-7.589	4.738	1.00	0.00
ATOM 1728	CB	LEU A 113	0.968	-6.614	2.278	1.00	0.00

ATOM 1729	CG	LEU A 113	0.466	-5.213	2.657	1.00	0.00
ATOM 1730	CD1	LEU A 113	-0.800	-5.305	3.493	1.00	0.00
ATOM 1731	CD2	LEU A 113	1.542	-4.432	3.400	1.00	0.00
ATOM 1732	H	LEU A 113	1.531	-9.205	2.449	1.00	0.00
ATOM 1733	HA	LEU A 113	2.779	-6.736	3.419	1.00	0.00
ATOM 1734	1HB	LEU A 113	1.520	-6.535	1.354	1.00	0.00
ATOM 1735	2HB	LEU A 113	0.107	-7.243	2.108	1.00	0.00
ATOM 1736	HG	LEU A 113	0.226	-4.672	1.753	1.00	0.00
ATOM 1737	1HD1	LEU A 113	-1.260	-6.272	3.345	1.00	0.00
ATOM 1738	2HD1	LEU A 113	-1.488	-4.530	3.190	1.00	0.00
ATOM 1739	3HD1	LEU A 113	-0.552	-5.180	4.537	1.00	0.00
ATOM 1740	1HD2	LEU A 113	2.515	-4.804	3.121	1.00	0.00
ATOM 1741	2HD2	LEU A 113	1.403	-4.551	4.464	1.00	0.00
ATOM 1742	3HD2	LEU A 113	1.469	-3.386	3.142	1.00	0.00
ATOM 1743	N	LEU A 114	1.927	-7.150	5.733	1.00	0.00
ATOM 1744	CA	LEU A 114	1.384	-7.180	7.088	1.00	0.00
ATOM 1745	C	LEU A 114	0.815	-8.558	7.415	1.00	0.00
ATOM 1746	O	LEU A 114	1.464	-9.365	8.080	1.00	0.00
ATOM 1747	CB	LEU A 114	0.300	-6.112	7.256	1.00	0.00
ATOM 1748	CG	LEU A 114	0.817	-4.678	7.380	1.00	0.00
ATOM 1749	CD1	LEU A 114	-0.330	-3.719	7.655	1.00	0.00
ATOM 1750	CD2	LEU A 114	1.868	-4.585	8.477	1.00	0.00
ATOM 1751	H	LEU A 114	2.883	-6.975	5.607	1.00	0.00
ATOM 1752	HA	LEU A 114	2.193	-6.968	7.771	1.00	0.00
ATOM 1753	1HB	LEU A 114	-0.360	-6.162	6.402	1.00	0.00
ATOM 1754	2HB	LEU A 114	-0.269	-6.344	8.143	1.00	0.00
ATOM 1755	HG	LEU A 114	1.278	-4.389	6.448	1.00	0.00

ATOM 1756	1HD1	LEU	A	114	-0.202	-2.825	7.063	1.00	0.00
ATOM 1757	2HD1	LEU	A	114	-0.339	-3.457	8.703	1.00	0.00
ATOM 1758	3HD1	LEU	A	114	-1.267	-4.191	7.395	1.00	0.00
ATOM 1759	1HD2	LEU	A	114	2.851	-4.706	8.045	1.00	0.00
ATOM 1760	2HD2	LEU	A	114	1.697	-5.362	9.207	1.00	0.00
ATOM 1761	3HD2	LEU	A	114	1.802	-3.620	8.958	1.00	0.00
ATOM 1762	N	ASN	A	115	-0.399	-8.819	6.944	1.00	0.00
ATOM 1763	CA	ASN	A	115	-1.054	-10.098	7.184	1.00	0.00
ATOM 1764	C	ASN	A	115	-1.778	-10.581	5.931	1.00	0.00
ATOM 1765	O	ASN	A	115	-2.790	-11.276	6.015	1.00	0.00
ATOM 1766	CB	ASN	A	115	-2.041	-9.977	8.348	1.00	0.00
ATOM 1767	CG	ASN	A	115	-1.899	-11.108	9.346	1.00	0.00
ATOM 1768	OD1	ASN	A	115	-1.890	-10.886	10.558	1.00	0.00
ATOM 1769	ND2	ASN	A	115	-1.786	-12.332	8.843	1.00	0.00
ATOM 1770	H	ASN	A	115	-0.865	-8.134	6.419	1.00	0.00
ATOM 1771	HA	ASN	A	115	-0.292	-10.817	7.445	1.00	0.00
ATOM 1772	1HB	ASN	A	115	-1.869	-9.044	8.862	1.00	0.00
ATOM 1773	2HB	ASN	A	115	-3.050	-9.988	7.960	1.00	0.00
ATOM 1774	1HD2	ASN	A	115	-1.800	-12.435	7.868	1.00	0.00
ATOM 1775	2HD2	ASN	A	115	-1.692	-13.082	9.466	1.00	0.00
ATOM 1776	N	PHE	A	116	-1.252	-10.205	4.769	1.00	0.00
ATOM 1777	CA	PHE	A	116	-1.847	-10.598	3.498	1.00	0.00
ATOM 1778	C	PHE	A	116	-0.769	-10.901	2.462	1.00	0.00
ATOM 1779	O	PHE	A	116	-0.109	-9.994	1.955	1.00	0.00
ATOM 1780	CB	PHE	A	116	-2.769	-9.493	2.981	1.00	0.00
ATOM 1781	CG	PHE	A	116	-4.120	-9.484	3.636	1.00	0.00
ATOM 1782	CD1	PHE	A	116	-4.411	-8.576	4.642	1.00	0.00

ATOM 1783	CD2	PHE A 116	-5.100	-10.384	3.248	1.00	0.00
ATOM 1784	CE1	PHE A 116	-5.652	-8.563	5.247	1.00	0.00
ATOM 1785	CE2	PHE A 116	-6.344	-10.378	3.850	1.00	0.00
ATOM 1786	CZ	PHE A 116	-6.620	-9.467	4.850	1.00	0.00
ATOM 1787	H	PHE A 116	-0.444	-9.650	4.767	1.00	0.00
ATOM 1788	HA	PHE A 116	-2.430	-11.492	3.665	1.00	0.00
ATOM 1789	1HB	PHE A 116	-2.307	-8.534	3.162	1.00	0.00
ATOM 1790	2HB	PHE A 116	-2.915	-9.622	1.918	1.00	0.00
ATOM 1791	HD1	PHE A 116	-3.654	-7.869	4.951	1.00	0.00
ATOM 1792	HD2	PHE A 116	-4.884	-11.096	2.466	1.00	0.00
ATOM 1793	HE1	PHE A 116	-5.866	-7.851	6.030	1.00	0.00
ATOM 1794	HE2	PHE A 116	-7.098	-11.084	3.539	1.00	0.00
ATOM 1795	HZ	PHE A 116	-7.592	-9.460	5.323	1.00	0.00
ATOM 1796	N	THR A 117	-0.598	-12.181	2.149	1.00	0.00
ATOM 1797	CA	THR A 117	0.399	-12.602	1.173	1.00	0.00
ATOM 1798	C	THR A 117	-0.020	-12.202	-0.238	1.00	0.00
ATOM 1799	O	THR A 117	-1.011	-12.706	-0.767	1.00	0.00
ATOM 1800	CB	THR A 117	0.608	-14.116	1.245	1.00	0.00
ATOM 1801	OG1	THR A 117	-0.634	-14.795	1.212	1.00	0.00
ATOM 1802	CG2	THR A 117	1.342	-14.559	2.492	1.00	0.00
ATOM 1803	H	THR A 117	-1.155	-12.859	2.586	1.00	0.00
ATOM 1804	HA	THR A 117	1.328	-12.108	1.413	1.00	0.00
ATOM 1805	HB	THR A 117	1.190	-14.430	0.390	1.00	0.00
ATOM 1806	HG1	THR A 117	-0.861	-15.004	0.302	1.00	0.00
ATOM 1807	1HG2	THR A 117	1.071	-13.917	3.318	1.00	0.00
ATOM 1808	2HG2	THR A 117	2.407	-14.497	2.324	1.00	0.00
ATOM 1809	3HG2	THR A 117	1.073	-15.578	2.725	1.00	0.00

ATOM 1810	N	LEU A 118	0.736	-11.292	-0.841	1.00	0.00
ATOM 1811	CA	LEU A 118	0.437	-10.826	-2.191	1.00	0.00
ATOM 1812	C	LEU A 118	1.642	-11.005	-3.110	1.00	0.00
ATOM 1813	O	LEU A 118	2.777	-11.124	-2.648	1.00	0.00
ATOM 1814	CB	LEU A 118	0.007	-9.358	-2.164	1.00	0.00
ATOM 1815	CG	LEU A 118	1.033	-8.387	-1.577	1.00	0.00
ATOM 1816	CD1	LEU A 118	1.951	-7.858	-2.667	1.00	0.00
ATOM 1817	CD2	LEU A 118	0.329	-7.242	-0.865	1.00	0.00
ATOM 1818	H	LEU A 118	1.513	-10.926	-0.370	1.00	0.00
ATOM 1819	HA	LEU A 118	-0.379	-11.422	-2.571	1.00	0.00
ATOM 1820	1HB	LEU A 118	-0.209	-9.051	-3.177	1.00	0.00
ATOM 1821	2HB	LEU A 118	-0.899	-9.282	-1.581	1.00	0.00
ATOM 1822	HG	LEU A 118	1.640	-8.910	-0.854	1.00	0.00
ATOM 1823	1HD1	LEU A 118	1.454	-7.931	-3.623	1.00	0.00
ATOM 1824	2HD1	LEU A 118	2.860	-8.441	-2.687	1.00	0.00
ATOM 1825	3HD1	LEU A 118	2.192	-6.824	-2.464	1.00	0.00
ATOM 1826	1HD2	LEU A 118	-0.576	-6.990	-1.398	1.00	0.00
ATOM 1827	2HD2	LEU A 118	0.981	-6.382	-0.834	1.00	0.00
ATOM 1828	3HD2	LEU A 118	0.081	-7.543	0.142	1.00	0.00
ATOM 1829	N	ASP A 119	1.384	-11.027	-4.413	1.00	0.00
ATOM 1830	CA	ASP A 119	2.444	-11.196	-5.402	1.00	0.00
ATOM 1831	C	ASP A 119	3.409	-10.016	-5.377	1.00	0.00
ATOM 1832	O	ASP A 119	3.061	-8.923	-4.931	1.00	0.00
ATOM 1833	CB	ASP A 119	1.845	-11.349	-6.801	1.00	0.00
ATOM 1834	CG	ASP A 119	2.601	-12.354	-7.647	1.00	0.00
ATOM 1835	OD1	ASP A 119	2.276	-13.558	-7.570	1.00	0.00
ATOM 1836	OD2	ASP A 119	3.519	-11.938	-8.384	1.00	0.00

ATOM 1837	H	ASP A 119	0.458	-10.930	-4.718	1.00	0.00
ATOM 1838	HA	ASP A 119	2.987	-12.095	-5.153	1.00	0.00
ATOM 1839	1HB	ASP A 119	0.820	-11.680	-6.713	1.00	0.00
ATOM 1840	2HB	ASP A 119	1.868	-10.393	-7.303	1.00	0.00
ATOM 1841	N	ARG A 120	4.626	-10.246	-5.863	1.00	0.00
ATOM 1842	CA	ARG A 120	5.645	-9.203	-5.899	1.00	0.00
ATOM 1843	C	ARG A 120	5.690	-8.537	-7.271	1.00	0.00
ATOM 1844	O	ARG A 120	5.630	-7.312	-7.380	1.00	0.00
ATOM 1845	CB	ARG A 120	7.016	-9.791	-5.556	1.00	0.00
ATOM 1846	CG	ARG A 120	8.147	-8.776	-5.617	1.00	0.00
ATOM 1847	CD	ARG A 120	8.961	-8.923	-6.893	1.00	0.00
ATOM 1848	NE	ARG A 120	10.251	-9.564	-6.649	1.00	0.00
ATOM 1849	CZ	ARG A 120	11.315	-8.931	-6.161	1.00	0.00
ATOM 1850	NH1	ARG A 120	11.246	-7.639	-5.860	1.00	0.00
ATOM 1851	NH2	ARG A 120	12.450	-9.589	-5.972	1.00	0.00
ATOM 1852	H	ARG A 120	4.842	-11.138	-6.205	1.00	0.00
ATOM 1853	HA	ARG A 120	5.386	-8.460	-5.160	1.00	0.00
ATOM 1854	1HB	ARG A 120	6.979	-10.198	-4.556	1.00	0.00
ATOM 1855	2HB	ARG A 120	7.236	-10.588	-6.250	1.00	0.00
ATOM 1856	1HG	ARG A 120	7.727	-7.783	-5.582	1.00	0.00
ATOM 1857	2HG	ARG A 120	8.796	-8.926	-4.767	1.00	0.00
ATOM 1858	1HD	ARG A 120	8.400	-9.520	-7.597	1.00	0.00
ATOM 1859	2HD	ARG A 120	9.131	-7.941	-7.311	1.00	0.00
ATOM 1860	HE	ARG A 120	10.329	-10.518	-6.861	1.00	0.00
ATOM 1861	1HH1	ARG A 120	10.393	-7.137	-6.000	1.00	0.00
ATOM 1862	2HH1	ARG A 120	12.049	-7.169	-5.495	1.00	0.00
ATOM 1863	1HH2	ARG A 120	12.506	-10.562	-6.196	1.00	0.00



ATOM 1864	2HH2	ARG	A	120	13.249	-9.114	-5.606	1.00	0.00
ATOM 1865	N	LYS	A	121	5.795	-9.352	-8.316	1.00	0.00
ATOM 1866	CA	LYS	A	121	5.848	-8.843	-9.682	1.00	0.00
ATOM 1867	C	LYS	A	121	4.618	-7.998	-9.997	1.00	0.00
ATOM 1868	O	LYS	A	121	4.678	-7.073	-10.808	1.00	0.00
ATOM 1869	CB	LYS	A	121	5.956	-10.001	-10.677	1.00	0.00
ATOM 1870	CG	LYS	A	121	7.388	-10.343	-11.059	1.00	0.00
ATOM 1871	CD	LYS	A	121	7.624	-11.845	-11.055	1.00	0.00
ATOM 1872	CE	LYS	A	121	7.857	-12.368	-9.647	1.00	0.00
ATOM 1873	NZ	LYS	A	121	9.219	-12.035	-9.147	1.00	0.00
ATOM 1874	H	LYS	A	121	5.839	-10.320	-8.165	1.00	0.00
ATOM 1875	HA	LYS	A	121	6.728	-8.222	-9.770	1.00	0.00
ATOM 1876	1HB	LYS	A	121	5.503	-10.879	-10.239	1.00	0.00
ATOM 1877	2HB	LYS	A	121	5.419	-9.740	-11.576	1.00	0.00
ATOM 1878	1HG	LYS	A	121	7.586	-9.961	-12.049	1.00	0.00
ATOM 1879	2HG	LYS	A	121	8.059	-9.880	-10.351	1.00	0.00
ATOM 1880	1HD	LYS	A	121	6.759	-12.337	-11.473	1.00	0.00
ATOM 1881	2HD	LYS	A	121	8.492	-12.064	-11.659	1.00	0.00
ATOM 1882	1HE	LYS	A	121	7.124	-11.928	-8.987	1.00	0.00
ATOM 1883	2HE	LYS	A	121	7.737	-13.442	-9.651	1.00	0.00
ATOM 1884	1HZ	LYS	A	121	9.411	-12.545	-8.262	1.00	0.00
ATOM 1885	2HZ	LYS	A	121	9.295	-11.014	-8.968	1.00	0.00
ATOM 1886	3HZ	LYS	A	121	9.934	-12.306	-9.853	1.00	0.00
ATOM 1887	N	SER	A	122	3.502	-8.321	-9.350	1.00	0.00
ATOM 1888	CA	SER	A	122	2.259	-7.589	-9.560	1.00	0.00
ATOM 1889	C	SER	A	122	2.373	-6.162	-9.034	1.00	0.00
ATOM 1890	O	SER	A	122	1.750	-5.242	-9.564	1.00	0.00

ATOM 1891	CB	SER A 122	1.097	-8.308	-8.870	1.00	0.00
ATOM 1892	OG	SER A 122	-0.151	-7.841	-9.353	1.00	0.00
ATOM 1893	H	SER A 122	3.517	-9.066	-8.714	1.00	0.00
ATOM 1894	HA	SER A 122	2.070	-7.555	-10.622	1.00	0.00
ATOM 1895	1HB	SER A 122	1.169	-9.369	-9.062	1.00	0.00
ATOM 1896	2HB	SER A 122	1.148	-8.131	-7.806	1.00	0.00
ATOM 1897	HG	SER A 122	-0.135	-6.883	-9.407	1.00	0.00
ATOM 1898	N	VAL A 123	3.174	-5.986	-7.988	1.00	0.00
ATOM 1899	CA	VAL A 123	3.372	-4.671	-7.390	1.00	0.00
ATOM 1900	C	VAL A 123	4.035	-3.716	-8.376	1.00	0.00
ATOM 1901	O	VAL A 123	5.117	-3.994	-8.893	1.00	0.00
ATOM 1902	CB	VAL A 123	4.234	-4.757	-6.116	1.00	0.00
ATOM 1903	CG1	VAL A 123	4.299	-3.406	-5.421	1.00	0.00
ATOM 1904	CG2	VAL A 123	3.694	-5.823	-5.175	1.00	0.00
ATOM 1905	H	VAL A 123	3.643	-6.758	-7.610	1.00	0.00
ATOM 1906	HA	VAL A 123	2.402	-4.278	-7.118	1.00	0.00
ATOM 1907	HB	VAL A 123	5.238	-5.037	-6.404	1.00	0.00
ATOM 1908	1HG1	VAL A 123	3.419	-2.831	-5.667	1.00	0.00
ATOM 1909	2HG1	VAL A 123	5.180	-2.874	-5.748	1.00	0.00
ATOM 1910	3HG1	VAL A 123	4.344	-3.553	-4.352	1.00	0.00
ATOM 1911	1HG2	VAL A 123	4.517	-6.383	-4.754	1.00	0.00
ATOM 1912	2HG2	VAL A 123	3.046	-6.492	-5.720	1.00	0.00
ATOM 1913	3HG2	VAL A 123	3.137	-5.352	-4.378	1.00	0.00
ATOM 1914	N	PHE A 124	3.378	-2.590	-8.634	1.00	0.00
ATOM 1915	CA	PHE A 124	3.906	-1.593	-9.558	1.00	0.00
ATOM 1916	C	PHE A 124	3.373	-0.204	-9.222	1.00	0.00
ATOM 1917	O	PHE A 124	2.164	-0.005	-9.095	1.00	0.00

ATOM 1918	CB	PHE A 124	3.538	-1.957	-10.998	1.00	0.00
ATOM 1919	CG	PHE A 124	4.428	-1.317	-12.025	1.00	0.00
ATOM 1920	CD1	PHE A 124	5.208	-2.093	-12.866	1.00	0.00
ATOM 1921	CD2	PHE A 124	4.484	0.062	-12.148	1.00	0.00
ATOM 1922	CE1	PHE A 124	6.027	-1.507	-13.812	1.00	0.00
ATOM 1923	CE2	PHE A 124	5.301	0.654	-13.092	1.00	0.00
ATOM 1924	CZ	PHE A 124	6.074	-0.132	-13.925	1.00	0.00
ATOM 1925	H	PHE A 124	2.520	-2.424	-8.191	1.00	0.00
ATOM 1926	HA	PHE A 124	4.981	-1.585	-9.461	1.00	0.00
ATOM 1927	1HB	PHE A 124	3.608	-3.028	-11.120	1.00	0.00
ATOM 1928	2HB	PHE A 124	2.523	-1.643	-11.193	1.00	0.00
ATOM 1929	HD1	PHE A 124	5.171	-3.170	-12.779	1.00	0.00
ATOM 1930	HD2	PHE A 124	3.880	0.678	-11.498	1.00	0.00
ATOM 1931	HE1	PHE A 124	6.630	-2.124	-14.461	1.00	0.00
ATOM 1932	HE2	PHE A 124	5.336	1.730	-13.179	1.00	0.00
ATOM 1933	HZ	PHE A 124	6.714	0.329	-14.664	1.00	0.00
ATOM 1934	N	VAL A 125	4.283	0.754	-9.079	1.00	0.00
ATOM 1935	CA	VAL A 125	3.904	2.125	-8.758	1.00	0.00
ATOM 1936	C	VAL A 125	4.392	3.095	-9.831	1.00	0.00
ATOM 1937	O	VAL A 125	5.592	3.340	-9.962	1.00	0.00
ATOM 1938	CB	VAL A 125	4.462	2.555	-7.386	1.00	0.00
ATOM 1939	CG1	VAL A 125	5.984	2.526	-7.391	1.00	0.00
ATOM 1940	CG2	VAL A 125	3.947	3.935	-7.006	1.00	0.00
ATOM 1941	H	VAL A 125	5.230	0.535	-9.192	1.00	0.00
ATOM 1942	HA	VAL A 125	2.826	2.168	-8.713	1.00	0.00
ATOM 1943	HB	VAL A 125	4.117	1.850	-6.644	1.00	0.00
ATOM 1944	1HG1	VAL A 125	6.346	2.432	-6.378	1.00	0.00

ATOM	1945	2HG1	VAL	A	125	6.361	3.441	-7.824	1.00	0.00
ATOM	1946	3HG1	VAL	A	125	6.326	1.685	-7.974	1.00	0.00
ATOM	1947	1HG2	VAL	A	125	3.120	3.834	-6.319	1.00	0.00
ATOM	1948	2HG2	VAL	A	125	3.616	4.454	-7.894	1.00	0.00
ATOM	1949	3HG2	VAL	A	125	4.739	4.499	-6.534	1.00	0.00
ATOM	1950	N	ASP	A	126	3.454	3.639	-10.599	1.00	0.00
ATOM	1951	CA	ASP	A	126	3.787	4.581	-11.663	1.00	0.00
ATOM	1952	C	ASP	A	126	3.212	5.962	-11.367	1.00	0.00
ATOM	1953	O	ASP	A	126	2.241	6.095	-10.623	1.00	0.00
ATOM	1954	CB	ASP	A	126	3.259	4.073	-13.005	1.00	0.00
ATOM	1955	CG	ASP	A	126	3.827	4.844	-14.180	1.00	0.00
ATOM	1956	OD1	ASP	A	126	4.632	4.263	-14.939	1.00	0.00
ATOM	1957	OD2	ASP	A	126	3.469	6.030	-14.341	1.00	0.00
ATOM	1958	H	ASP	A	126	2.515	3.403	-10.448	1.00	0.00
ATOM	1959	HA	ASP	A	126	4.863	4.656	-11.714	1.00	0.00
ATOM	1960	1HB	ASP	A	126	3.525	3.032	-13.119	1.00	0.00
ATOM	1961	2HB	ASP	A	126	2.183	4.169	-13.021	1.00	0.00
ATOM	1962	N	SER	A	127	3.819	6.989	-11.956	1.00	0.00
ATOM	1963	CA	SER	A	127	3.366	8.360	-11.756	1.00	0.00
ATOM	1964	C	SER	A	127	1.980	8.570	-12.355	1.00	0.00
ATOM	1965	O	SER	A	127	1.841	8.811	-13.555	1.00	0.00
ATOM	1966	CB	SER	A	127	4.359	9.343	-12.381	1.00	0.00
ATOM	1967	OG	SER	A	127	5.696	8.953	-12.121	1.00	0.00
ATOM	1968	H	SER	A	127	4.588	6.819	-12.538	1.00	0.00
ATOM	1969	HA	SER	A	127	3.316	8.541	-10.693	1.00	0.00
ATOM	1970	1HB	SER	A	127	4.208	9.372	-13.450	1.00	0.00
ATOM	1971	2HB	SER	A	127	4.197	10.327	-11.967	1.00	0.00

ATOM 1972	HG	SER A 127	6.259	9.235	-12.845	1.00	0.00
ATOM 1973	N	GLY A 128	0.956	8.474	-11.514	1.00	0.00
ATOM 1974	CA	GLY A 128	-0.408	8.655	-11.978	1.00	0.00
ATOM 1975	C	GLY A 128	-0.789	7.665	-13.062	1.00	0.00
ATOM 1976	O	GLY A 128	0.012	6.810	-13.435	1.00	0.00
ATOM 1977	H	GLY A 128	1.128	8.280	-10.569	1.00	0.00
ATOM 1978	1HA	GLY A 128	-1.079	8.532	-11.141	1.00	0.00
ATOM 1979	2HA	GLY A 128	-0.514	9.656	-12.366	1.00	0.00
ATOM 1980	N	PRO A 129	-2.022	7.756	-13.590	1.00	0.00
ATOM 1981	CA	PRO A 129	-2.501	6.856	-14.639	1.00	0.00
ATOM 1982	C	PRO A 129	-1.973	7.237	-16.019	1.00	0.00
ATOM 1983	O	PRO A 129	-1.553	8.372	-16.241	1.00	0.00
ATOM 1984	CB	PRO A 129	-4.015	7.033	-14.577	1.00	0.00
ATOM 1985	CG	PRO A 129	-4.210	8.436	-14.110	1.00	0.00
ATOM 1986	CD	PRO A 129	-3.047	8.746	-13.202	1.00	0.00
ATOM 1987	HA	PRO A 129	-2.247	5.828	-14.427	1.00	0.00
ATOM 1988	1HB	PRO A 129	-4.439	6.881	-15.560	1.00	0.00
ATOM 1989	2HB	PRO A 129	-4.437	6.324	-13.882	1.00	0.00
ATOM 1990	1HG	PRO A 129	-4.213	9.106	-14.956	1.00	0.00
ATOM 1991	2HG	PRO A 129	-5.140	8.514	-13.566	1.00	0.00
ATOM 1992	1HD	PRO A 129	-2.694	9.752	-13.375	1.00	0.00
ATOM 1993	2HD	PRO A 129	-3.331	8.620	-12.168	1.00	0.00
ATOM 1994	N	SER A 130	-2.000	6.281	-16.942	1.00	0.00
ATOM 1995	CA	SER A 130	-1.525	6.518	-18.300	1.00	0.00
ATOM 1996	C	SER A 130	-0.059	6.939	-18.300	1.00	0.00
ATOM 1997	O	SER A 130	0.262	8.106	-18.071	1.00	0.00
ATOM 1998	CB	SER A 130	-2.376	7.590	-18.981	1.00	0.00

ATOM 1999	OG	SER A 130	-3.509	7.018	-19.612	1.00	0.00
ATOM 2000	H	SER A 130	-2.348	5.396	-16.703	1.00	0.00
ATOM 2001	HA	SER A 130	-1.620	5.593	-18.849	1.00	0.00
ATOM 2002	1HB	SER A 130	-2.713	8.302	-18.243	1.00	0.00
ATOM 2003	2HB	SER A 130	-1.782	8.098	-19.727	1.00	0.00
ATOM 2004	HG	SER A 130	-4.068	6.604	-18.952	1.00	0.00
ATOM 2005	N	SER A 131	0.827	5.983	-18.558	1.00	0.00
ATOM 2006	CA	SER A 131	2.260	6.256	-18.588	1.00	0.00
ATOM 2007	C	SER A 131	2.897	5.677	-19.847	1.00	0.00
ATOM 2008	O	SER A 131	3.679	6.346	-20.522	1.00	0.00
ATOM 2009	CB	SER A 131	2.937	5.675	-17.346	1.00	0.00
ATOM 2010	OG	SER A 131	4.220	6.245	-17.150	1.00	0.00
ATOM 2011	H	SER A 131	0.510	5.072	-18.733	1.00	0.00
ATOM 2012	HA	SER A 131	2.392	7.328	-18.592	1.00	0.00
ATOM 2013	1HB	SER A 131	2.329	5.880	-16.477	1.00	0.00
ATOM 2014	2HB	SER A 131	3.046	4.607	-17.464	1.00	0.00
ATOM 2015	HG	SER A 131	4.371	6.377	-16.211	1.00	0.00
ATOM 2016	N	GLY A 132	2.556	4.431	-20.157	1.00	0.00
ATOM 2017	CA	GLY A 132	3.104	3.783	-21.334	1.00	0.00
ATOM 2018	C	GLY A 132	3.533	2.355	-21.064	1.00	0.00
ATOM 2019	H	GLY A 132	1.927	3.947	-19.582	1.00	0.00
ATOM 2020	1HA	GLY A 132	2.355	3.781	-22.112	1.00	0.00
ATOM 2021	2HA	GLY A 132	3.961	4.346	-21.675	1.00	0.00
TER 2022		GLY A 132					

ENDMDL

Three-Dimensional Structure Coordinate 4

ATOM 1	N	GLY A	1	-7.660	28.183	-26.257	1.00	0.00
ATOM 2	CA	GLY A	1	-7.801	26.961	-25.417	1.00	0.00
ATOM 3	C	GLY A	1	-8.025	27.287	-23.953	1.00	0.00
ATOM 4	O	GLY A	1	-8.954	28.017	-23.608	1.00	0.00
ATOM 5	1H	GLY A	1	-7.096	28.898	-25.756	1.00	0.00
ATOM 6	2H	GLY A	1	-8.596	28.582	-26.470	1.00	0.00
ATOM 7	3H	GLY A	1	-7.184	27.949	-27.152	1.00	0.00
ATOM 8	1HA	GLY A	1	-8.641	26.386	-25.778	1.00	0.00
ATOM 9	2HA	GLY A	1	-6.905	26.369	-25.510	1.00	0.00
ATOM 10	N	SER A	2	-7.170	26.745	-23.092	1.00	0.00
ATOM 11	CA	SER A	2	-7.278	26.983	-21.657	1.00	0.00
ATOM 12	C	SER A	2	-6.295	28.059	-21.209	1.00	0.00
ATOM 13	O	SER A	2	-5.086	27.930	-21.403	1.00	0.00
ATOM 14	CB	SER A	2	-7.021	25.688	-20.884	1.00	0.00
ATOM 15	OG	SER A	2	-8.231	24.993	-20.637	1.00	0.00
ATOM 16	H	SER A	2	-6.450	26.173	-23.429	1.00	0.00
ATOM 17	HA	SER A	2	-8.283	27.321	-21.452	1.00	0.00
ATOM 18	1HB	SER A	2	-6.366	25.050	-21.461	1.00	0.00
ATOM 19	2HB	SER A	2	-6.554	25.922	-19.939	1.00	0.00
ATOM 20	HG	SER A	2	-8.848	25.574	-20.188	1.00	0.00
ATOM 21	N	SER A	3	-6.822	29.121	-20.608	1.00	0.00
ATOM 22	CA	SER A	3	-5.991	30.220	-20.131	1.00	0.00
ATOM 23	C	SER A	3	-5.250	29.830	-18.856	1.00	0.00
ATOM 24	O	SER A	3	-5.795	29.921	-17.756	1.00	0.00
ATOM 25	CB	SER A	3	-6.848	31.462	-19.876	1.00	0.00
ATOM 26	OG	SER A	3	-6.914	32.282	-21.029	1.00	0.00
ATOM 27	H	SER A	3	-7.793	29.167	-20.481	1.00	0.00

ATOM 28	HA	SER A	3	-5.267	30.446	-20.899	1.00	0.00
ATOM 29	1HB	SER A	3	-7.849	31.157	-19.608	1.00	0.00
ATOM 30	2HB	SER A	3	-6.418	32.034	-19.066	1.00	0.00
ATOM 31	HG	SER A	3	-6.032	32.578	-21.263	1.00	0.00
ATOM 32	N	GLY A	4	-4.004	29.392	-19.012	1.00	0.00
ATOM 33	CA	GLY A	4	-3.209	28.994	-17.865	1.00	0.00
ATOM 34	C	GLY A	4	-3.593	27.625	-17.340	1.00	0.00
ATOM 35	O	GLY A	4	-4.643	27.462	-16.719	1.00	0.00
ATOM 36	H	GLY A	4	-3.622	29.340	-19.913	1.00	0.00
ATOM 37	1HA	GLY A	4	-2.168	28.979	-18.150	1.00	0.00
ATOM 38	2HA	GLY A	4	-3.345	29.720	-17.077	1.00	0.00
ATOM 39	N	SER A	5	-2.741	26.637	-17.592	1.00	0.00
ATOM 40	CA	SER A	5	-2.995	25.274	-17.140	1.00	0.00
ATOM 41	C	SER A	5	-1.744	24.661	-16.520	1.00	0.00
ATOM 42	O	SER A	5	-1.802	24.055	-15.451	1.00	0.00
ATOM 43	CB	SER A	5	-3.476	24.409	-18.308	1.00	0.00
ATOM 44	OG	SER A	5	-3.672	23.065	-17.901	1.00	0.00
ATOM 45	H	SER A	5	-1.919	26.829	-18.091	1.00	0.00
ATOM 46	HA	SER A	5	-3.772	25.313	-16.390	1.00	0.00
ATOM 47	1HB	SER A	5	-4.412	24.798	-18.680	1.00	0.00
ATOM 48	2HB	SER A	5	-2.738	24.430	-19.096	1.00	0.00
ATOM 49	HG	SER A	5	-2.837	22.695	-17.606	1.00	0.00
ATOM 50	N	SER A	6	-0.613	24.821	-17.200	1.00	0.00
ATOM 51	CA	SER A	6	0.654	24.284	-16.716	1.00	0.00
ATOM 52	C	SER A	6	0.976	24.814	-15.322	1.00	0.00
ATOM 53	O	SER A	6	1.177	26.014	-15.135	1.00	0.00
ATOM 54	CB	SER A	6	1.785	24.641	-17.684	1.00	0.00



ATOM 55	OG	SER A	6	2.094	26.022	-17.620	1.00	0.00
ATOM 56	H	SER A	6	-0.631	25.314	-18.048	1.00	0.00
ATOM 57	HA	SER A	6	0.561	23.209	-16.668	1.00	0.00
ATOM 58	1HB	SER A	6	2.668	24.075	-17.426	1.00	0.00
ATOM 59	2HB	SER A	6	1.483	24.397	-18.692	1.00	0.00
ATOM 60	HG	SER A	6	2.467	26.228	-16.760	1.00	0.00
ATOM 61	N	GLY A	7	1.021	23.910	-14.349	1.00	0.00
ATOM 62	CA	GLY A	7	1.318	24.306	-12.984	1.00	0.00
ATOM 63	C	GLY A	7	0.120	24.157	-12.065	1.00	0.00
ATOM 64	O	GLY A	7	0.005	24.868	-11.066	1.00	0.00
ATOM 65	H	GLY A	7	0.851	22.968	-14.558	1.00	0.00
ATOM 66	1HA	GLY A	7	2.123	23.691	-12.610	1.00	0.00
ATOM 67	2HA	GLY A	7	1.634	25.338	-12.980	1.00	0.00
ATOM 68	N	SER A	8	-0.771	23.233	-12.403	1.00	0.00
ATOM 69	CA	SER A	8	-1.966	22.993	-11.601	1.00	0.00
ATOM 70	C	SER A	8	-1.621	22.227	-10.329	1.00	0.00
ATOM 71	O	SER A	8	-1.031	21.147	-10.382	1.00	0.00
ATOM 72	CB	SER A	8	-3.003	22.216	-12.414	1.00	0.00
ATOM 73	OG	SER A	8	-3.909	23.095	-13.058	1.00	0.00
ATOM 74	H	SER A	8	-0.624	22.698	-13.211	1.00	0.00
ATOM 75	HA	SER A	8	-2.379	23.953	-11.328	1.00	0.00
ATOM 76	1HB	SER A	8	-2.501	21.625	-13.164	1.00	0.00
ATOM 77	2HB	SER A	8	-3.559	21.565	-11.755	1.00	0.00
ATOM 78	HG	SER A	8	-4.458	23.529	-12.399	1.00	0.00
ATOM 79	N	SER A	9	-1.992	22.791	-9.184	1.00	0.00
ATOM 80	CA	SER A	9	-1.721	22.161	-7.898	1.00	0.00
ATOM 81	C	SER A	9	-0.220	21.979	-7.687	1.00	0.00

ATOM 82	O	SER A	9	0.586	22.391	-8.520	1.00	0.00
ATOM 83	CB	SER A	9	-2.428	20.807	-7.811	1.00	0.00
ATOM 84	OG	SER A	9	-3.772	20.960	-7.388	1.00	0.00
ATOM 85	H	SER A	9	-2.458	23.654	-9.205	1.00	0.00
ATOM 86	HA	SER A	9	-2.105	22.809	-7.124	1.00	0.00
ATOM 87	1HB	SER A	9	-2.421	20.336	-8.783	1.00	0.00
ATOM 88	2HB	SER A	9	-1.910	20.178	-7.103	1.00	0.00
ATOM 89	HG	SER A	9	-4.238	21.533	-8.001	1.00	0.00
ATOM 90	N	SER A	10	0.145	21.361	-6.569	1.00	0.00
ATOM 91	CA	SER A	10	1.549	21.126	-6.252	1.00	0.00
ATOM 92	C	SER A	10	1.732	19.785	-5.548	1.00	0.00
ATOM 93	O	SER A	10	2.633	19.623	-4.725	1.00	0.00
ATOM 94	CB	SER A	10	2.091	22.255	-5.372	1.00	0.00
ATOM 95	OG	SER A	10	2.036	23.499	-6.048	1.00	0.00
ATOM 96	H	SER A	10	-0.544	21.056	-5.943	1.00	0.00
ATOM 97	HA	SER A	10	2.100	21.109	-7.179	1.00	0.00
ATOM 98	1HB	SER A	10	1.498	22.323	-4.472	1.00	0.00
ATOM 99	2HB	SER A	10	3.117	22.044	-5.113	1.00	0.00
ATOM 100	HG	SER A	10	1.165	23.888	-5.935	1.00	0.00
ATOM 101	N	SER A	11	0.873	18.827	-5.878	1.00	0.00
ATOM 102	CA	SER A	11	0.940	17.499	-5.277	1.00	0.00
ATOM 103	C	SER A	11	1.365	16.458	-6.307	1.00	0.00
ATOM 104	O	SER A	11	1.511	16.765	-7.491	1.00	0.00
ATOM 105	CB	SER A	11	-0.414	17.118	-4.677	1.00	0.00
ATOM 106	OG	SER A	11	-1.464	17.348	-5.600	1.00	0.00
ATOM 107	H	SER A	11	0.177	19.016	-6.541	1.00	0.00
ATOM 108	HA	SER A	11	1.677	17.529	-4.489	1.00	0.00

ATOM 109	1HB	SER A	11	-0.407	16.070	-4.414	1.00	0.00
ATOM 110	2HB	SER A	11	-0.593	17.710	-3.791	1.00	0.00
ATOM 111	N	GLN A	12	1.561	15.226	-5.850	1.00	0.00
ATOM 112	CA	GLN A	12	1.968	14.140	-6.734	1.00	0.00
ATOM 113	C	GLN A	12	1.151	12.882	-6.460	1.00	0.00
ATOM 114	O	GLN A	12	0.880	12.544	-5.307	1.00	0.00
ATOM 115	CB	GLN A	12	3.459	13.843	-6.558	1.00	0.00
ATOM 116	CG	GLN A	12	3.870	13.627	-5.110	1.00	0.00
ATOM 117	CD	GLN A	12	4.953	14.589	-4.660	1.00	0.00
ATOM 118	OE1	GLN A	12	4.790	15.309	-3.677	1.00	0.00
ATOM 119	NE2	GLN A	12	6.068	14.604	-5.382	1.00	0.00
ATOM 120	H	GLN A	12	1.429	15.043	-4.896	1.00	0.00
ATOM 121	HA	GLN A	12	1.790	14.455	-7.750	1.00	0.00
ATOM 122	1HB	GLN A	12	3.705	12.952	-7.116	1.00	0.00
ATOM 123	2HB	GLN A	12	4.027	14.673	-6.952	1.00	0.00
ATOM 124	1HG	GLN A	12	3.005	13.763	-4.479	1.00	0.00
ATOM 125	2HG	GLN A	12	4.238	12.617	-5.002	1.00	0.00
ATOM 126	1HE2	GLN A	12	6.129	14.002	-6.153	1.00	0.00
ATOM 127	2HE2	GLN A	12	6.785	15.215	-5.113	1.00	0.00
ATOM 128	N	HIS A	13	0.762	12.191	-7.526	1.00	0.00
ATOM 129	CA	HIS A	13	-0.025	10.970	-7.400	1.00	0.00
ATOM 130	C	HIS A	13	0.642	9.815	-8.139	1.00	0.00
ATOM 131	O	HIS A	13	1.047	9.953	-9.294	1.00	0.00
ATOM 132	CB	HIS A	13	-1.438	11.190	-7.944	1.00	0.00
ATOM 133	CG	HIS A	13	-2.198	12.255	-7.216	1.00	0.00
ATOM 134	ND1	HIS A	13	-3.460	12.058	-6.695	1.00	0.00
ATOM 135	CD2	HIS A	13	-1.870	13.536	-6.923	1.00	0.00

ATOM 136	CE1	HIS	A	13	-3.873	13.169	-6.114	1.00	0.00
ATOM 137	NE2	HIS	A	13	-2.927	14.081	-6.238	1.00	0.00
ATOM 138	H	HIS	A	13	1.009	12.511	-8.419	1.00	0.00
ATOM 139	HA	HIS	A	13	-0.087	10.721	-6.351	1.00	0.00
ATOM 140	1HB	HIS	A	13	-1.376	11.478	-8.982	1.00	0.00
ATOM 141	2HB	HIS	A	13	-1.995	10.269	-7.862	1.00	0.00
ATOM 142	HD1	HIS	A	13	-3.975	11.225	-6.744	1.00	0.00
ATOM 143	HD2	HIS	A	13	-0.946	14.036	-7.180	1.00	0.00
ATOM 144	HE1	HIS	A	13	-4.824	13.309	-5.619	1.00	0.00
ATOM 145	HE2	HIS	A	13	-2.997	15.014	-5.945	1.00	0.00
ATOM 146	N	PHE	A	14	0.750	8.673	-7.468	1.00	0.00
ATOM 147	CA	PHE	A	14	1.366	7.492	-8.060	1.00	0.00
ATOM 148	C	PHE	A	14	0.419	6.298	-7.997	1.00	0.00
ATOM 149	O	PHE	A	14	0.105	5.798	-6.917	1.00	0.00
ATOM 150	CB	PHE	A	14	2.674	7.159	-7.341	1.00	0.00
ATOM 151	CG	PHE	A	14	3.814	8.060	-7.723	1.00	0.00
ATOM 152	CD1	PHE	A	14	4.465	7.899	-8.936	1.00	0.00
ATOM 153	CD2	PHE	A	14	4.235	9.068	-6.870	1.00	0.00
ATOM 154	CE1	PHE	A	14	5.514	8.725	-9.291	1.00	0.00
ATOM 155	CE2	PHE	A	14	5.283	9.897	-7.219	1.00	0.00
ATOM 156	CZ	PHE	A	14	5.923	9.727	-8.431	1.00	0.00
ATOM 157	H	PHE	A	14	0.407	8.624	-6.550	1.00	0.00
ATOM 158	HA	PHE	A	14	1.579	7.713	-9.095	1.00	0.00
ATOM 159	1HB	PHE	A	14	2.525	7.247	-6.276	1.00	0.00
ATOM 160	2HB	PHE	A	14	2.958	6.143	-7.577	1.00	0.00
ATOM 161	HD1	PHE	A	14	4.146	7.116	-9.609	1.00	0.00
ATOM 162	HD2	PHE	A	14	3.734	9.202	-5.922	1.00	0.00

ATOM 163	HE1	PHE	A	14	6.013	8.590	-10.238	1.00	0.00
ATOM 164	HE2	PHE	A	14	5.601	10.679	-6.545	1.00	0.00
ATOM 165	HZ	PHE	A	14	6.742	10.374	-8.706	1.00	0.00
ATOM 166	N	ASN	A	15	-0.035	5.847	-9.163	1.00	0.00
ATOM 167	CA	ASN	A	15	-0.948	4.711	-9.241	1.00	0.00
ATOM 168	C	ASN	A	15	-0.351	3.481	-8.564	1.00	0.00
ATOM 169	O	ASN	A	15	0.667	2.948	-9.007	1.00	0.00
ATOM 170	CB	ASN	A	15	-1.277	4.396	-10.702	1.00	0.00
ATOM 171	CG	ASN	A	15	-2.569	5.048	-11.157	1.00	0.00
ATOM 172	OD1	ASN	A	15	-2.554	6.071	-11.841	1.00	0.00
ATOM 173	ND2	ASN	A	15	-3.696	4.456	-10.778	1.00	0.00
ATOM 174	H	ASN	A	15	0.250	6.289	-9.989	1.00	0.00
ATOM 175	HA	ASN	A	15	-1.858	4.982	-8.728	1.00	0.00
ATOM 176	1HB	ASN	A	15	-0.475	4.754	-11.330	1.00	0.00
ATOM 177	2HB	ASN	A	15	-1.373	3.327	-10.821	1.00	0.00
ATOM 178	1HD2	ASN	A	15	-3.631	3.643	-10.234	1.00	0.00
ATOM 179	2HD2	ASN	A	15	-4.545	4.856	-11.059	1.00	0.00
ATOM 180	N	LEU	A	16	-0.993	3.034	-7.489	1.00	0.00
ATOM 181	CA	LEU	A	16	-0.528	1.866	-6.751	1.00	0.00
ATOM 182	C	LEU	A	16	-1.344	0.633	-7.123	1.00	0.00
ATOM 183	O	LEU	A	16	-2.563	0.613	-6.958	1.00	0.00
ATOM 184	CB	LEU	A	16	-0.621	2.119	-5.245	1.00	0.00
ATOM 185	CG	LEU	A	16	0.089	1.087	-4.368	1.00	0.00
ATOM 186	CD1	LEU	A	16	1.599	1.212	-4.509	1.00	0.00
ATOM 187	CD2	LEU	A	16	-0.329	1.249	-2.914	1.00	0.00
ATOM 188	H	LEU	A	16	-1.800	3.501	-7.185	1.00	0.00
ATOM 189	HA	LEU	A	16	0.505	1.694	-7.016	1.00	0.00

ATOM 190	1HB	LEU	A	16	-0.194	3.091	-5.038	1.00	0.00
ATOM 191	2HB	LEU	A	16	-1.664	2.138	-4.968	1.00	0.00
ATOM 192	HG	LEU	A	16	-0.195	0.096	-4.691	1.00	0.00
ATOM 193	1HD1	LEU	A	16	1.975	0.385	-5.094	1.00	0.00
ATOM 194	2HD1	LEU	A	16	2.055	1.196	-3.530	1.00	0.00
ATOM 195	3HD1	LEU	A	16	1.840	2.142	-5.003	1.00	0.00
ATOM 196	1HD2	LEU	A	16	-1.354	1.588	-2.869	1.00	0.00
ATOM 197	2HD2	LEU	A	16	0.311	1.973	-2.434	1.00	0.00
ATOM 198	3HD2	LEU	A	16	-0.242	0.299	-2.406	1.00	0.00
ATOM 199	N	ASN	A	17	-0.667	-0.392	-7.630	1.00	0.00
ATOM 200	CA	ASN	A	17	-1.339	-1.623	-8.029	1.00	0.00
ATOM 201	C	ASN	A	17	-0.564	-2.853	-7.566	1.00	0.00
ATOM 202	O	ASN	A	17	0.664	-2.889	-7.634	1.00	0.00
ATOM 203	CB	ASN	A	17	-1.518	-1.661	-9.547	1.00	0.00
ATOM 204	CG	ASN	A	17	-2.522	-0.637	-10.036	1.00	0.00
ATOM 205	OD1	ASN	A	17	-3.698	-0.947	-10.231	1.00	0.00
ATOM 206	ND2	ASN	A	17	-2.063	0.592	-10.239	1.00	0.00
ATOM 207	H	ASN	A	17	0.304	-0.318	-7.741	1.00	0.00
ATOM 208	HA	ASN	A	17	-2.312	-1.632	-7.562	1.00	0.00
ATOM 209	1HB	ASN	A	17	-0.568	-1.461	-10.020	1.00	0.00
ATOM 210	2HB	ASN	A	17	-1.861	-2.643	-9.837	1.00	0.00
ATOM 211	1HD2	ASN	A	17	-1.115	0.767	-10.063	1.00	0.00
ATOM 212	2HD2	ASN	A	17	-2.691	1.275	-10.555	1.00	0.00
ATOM 213	N	PHE	A	18	-1.295	-3.861	-7.101	1.00	0.00
ATOM 214	CA	PHE	A	18	-0.689	-5.101	-6.631	1.00	0.00
ATOM 215	C	PHE	A	18	-1.765	-6.093	-6.197	1.00	0.00
ATOM 216	O	PHE	A	18	-2.498	-5.851	-5.238	1.00	0.00

ATOM 217	CB	PHE A	18	0.270	-4.825	-5.471	1.00	0.00
ATOM 218	CG	PHE A	18	-0.405	-4.292	-4.239	1.00	0.00
ATOM 219	CD1	PHE A	18	-0.824	-2.973	-4.179	1.00	0.00
ATOM 220	CD2	PHE A	18	-0.617	-5.110	-3.141	1.00	0.00
ATOM 221	CE1	PHE A	18	-1.444	-2.479	-3.047	1.00	0.00
ATOM 222	CE2	PHE A	18	-1.237	-4.622	-2.007	1.00	0.00
ATOM 223	CZ	PHE A	18	-1.651	-3.304	-1.959	1.00	0.00
ATOM 224	H	PHE A	18	-2.272	-3.769	-7.077	1.00	0.00
ATOM 225	HA	PHE A	18	-0.134	-5.529	-7.452	1.00	0.00
ATOM 226	1HB	PHE A	18	0.771	-5.743	-5.202	1.00	0.00
ATOM 227	2HB	PHE A	18	1.006	-4.100	-5.788	1.00	0.00
ATOM 228	HD1	PHE A	18	-0.664	-2.327	-5.029	1.00	0.00
ATOM 229	HD2	PHE A	18	-0.293	-6.140	-3.176	1.00	0.00
ATOM 230	HE1	PHE A	18	-1.767	-1.448	-3.013	1.00	0.00
ATOM 231	HE2	PHE A	18	-1.397	-5.270	-1.157	1.00	0.00
ATOM 232	HZ	PHE A	18	-2.136	-2.921	-1.073	1.00	0.00
ATOM 233	N	THR A	19	-1.858	-7.208	-6.915	1.00	0.00
ATOM 234	CA	THR A	19	-2.848	-8.234	-6.610	1.00	0.00
ATOM 235	C	THR A	19	-2.477	-9.000	-5.345	1.00	0.00
ATOM 236	O	THR A	19	-1.317	-9.359	-5.141	1.00	0.00
ATOM 237	CB	THR A	19	-2.983	-9.204	-7.786	1.00	0.00
ATOM 238	OG1	THR A	19	-3.340	-8.511	-8.968	1.00	0.00
ATOM 239	CG2	THR A	19	-4.020	-10.283	-7.556	1.00	0.00
ATOM 240	H	THR A	19	-1.249	-7.341	-7.671	1.00	0.00
ATOM 241	HA	THR A	19	-3.796	-7.742	-6.452	1.00	0.00
ATOM 242	HB	THR A	19	-2.032	-9.689	-7.950	1.00	0.00
ATOM 243	HG1	THR A	19	-3.359	-9.125	-9.706	1.00	0.00

ATOM 244	1HG2	THR	A	19	-3.539	-11.250	-7.554	1.00	0.00
ATOM 245	2HG2	THR	A	19	-4.756	-10.250	-8.347	1.00	0.00
ATOM 246	3HG2	THR	A	19	-4.506	-10.120	-6.605	1.00	0.00
ATOM 247	N	ILE	A	20	-3.472	-9.252	-4.500	1.00	0.00
ATOM 248	CA	ILE	A	20	-3.255	-9.980	-3.257	1.00	0.00
ATOM 249	C	ILE	A	20	-3.729	-11.424	-3.384	1.00	0.00
ATOM 250	O	ILE	A	20	-4.926	-11.704	-3.315	1.00	0.00
ATOM 251	CB	ILE	A	20	-3.986	-9.312	-2.076	1.00	0.00
ATOM 252	CG1	ILE	A	20	-3.663	-7.818	-2.027	1.00	0.00
ATOM 253	CG2	ILE	A	20	-3.605	-9.987	-0.767	1.00	0.00
ATOM 254	CD1	ILE	A	20	-4.682	-7.004	-1.259	1.00	0.00
ATOM 255	H	ILE	A	20	-4.376	-8.943	-4.721	1.00	0.00
ATOM 256	HA	ILE	A	20	-2.196	-9.976	-3.047	1.00	0.00
ATOM 257	HB	ILE	A	20	-5.049	-9.439	-2.222	1.00	0.00
ATOM 258	1HG1	ILE	A	20	-2.704	-7.680	-1.550	1.00	0.00
ATOM 259	2HG1	ILE	A	20	-3.620	-7.432	-3.034	1.00	0.00
ATOM 260	1HG2	ILE	A	20	-2.541	-9.891	-0.609	1.00	0.00
ATOM 261	2HG2	ILE	A	20	-3.871	-11.032	-0.810	1.00	0.00
ATOM 262	3HG2	ILE	A	20	-4.133	-9.514	0.049	1.00	0.00
ATOM 263	1HD1	ILE	A	20	-4.234	-6.075	-0.939	1.00	0.00
ATOM 264	2HD1	ILE	A	20	-5.011	-7.563	-0.394	1.00	0.00
ATOM 265	3HD1	ILE	A	20	-5.529	-6.795	-1.895	1.00	0.00
ATOM 266	N	THR	A	21	-2.782	-12.338	-3.574	1.00	0.00
ATOM 267	CA	THR	A	21	-3.101	-13.755	-3.714	1.00	0.00
ATOM 268	C	THR	A	21	-3.908	-14.262	-2.521	1.00	0.00
ATOM 269	O	THR	A	21	-4.686	-15.207	-2.643	1.00	0.00
ATOM 270	CB	THR	A	21	-1.819	-14.575	-3.861	1.00	0.00



ATOM 271	OG1	THR	A	21	-0.926	-14.304	-2.796	1.00	0.00
ATOM 272	CG2	THR	A	21	-1.083	-14.308	-5.157	1.00	0.00
ATOM 273	H	THR	A	21	-1.846	-12.053	-3.622	1.00	0.00
ATOM 274	HA	THR	A	21	-3.695	-13.871	-4.609	1.00	0.00
ATOM 275	HB	THR	A	21	-2.070	-15.626	-3.835	1.00	0.00
ATOM 276	HG1	THR	A	21	-0.587	-13.409	-2.881	1.00	0.00
ATOM 277	1HG2	THR	A	21	-1.363	-15.050	-5.890	1.00	0.00
ATOM 278	2HG2	THR	A	21	-0.019	-14.357	-4.983	1.00	0.00
ATOM 279	3HG2	THR	A	21	-1.343	-13.325	-5.523	1.00	0.00
ATOM 280	N	ASN	A	22	-3.716	-13.628	-1.369	1.00	0.00
ATOM 281	CA	ASN	A	22	-4.426	-14.018	-0.156	1.00	0.00
ATOM 282	C	ASN	A	22	-5.707	-13.205	0.011	1.00	0.00
ATOM 283	O	ASN	A	22	-5.966	-12.646	1.077	1.00	0.00
ATOM 284	CB	ASN	A	22	-3.526	-13.836	1.068	1.00	0.00
ATOM 285	CG	ASN	A	22	-3.694	-14.950	2.081	1.00	0.00
ATOM 286	OD1	ASN	A	22	-4.439	-15.904	1.854	1.00	0.00
ATOM 287	ND2	ASN	A	22	-3.002	-14.835	3.209	1.00	0.00
ATOM 288	H	ASN	A	22	-3.082	-12.882	-1.332	1.00	0.00
ATOM 289	HA	ASN	A	22	-4.687	-15.062	-0.247	1.00	0.00
ATOM 290	1HB	ASN	A	22	-2.495	-13.818	0.749	1.00	0.00
ATOM 291	2HB	ASN	A	22	-3.767	-12.898	1.546	1.00	0.00
ATOM 292	1HD2	ASN	A	22	-2.430	-14.047	3.321	1.00	0.00
ATOM 293	2HD2	ASN	A	22	-3.092	-15.542	3.881	1.00	0.00
ATOM 294	N	LEU	A	23	-6.507	-13.145	-1.049	1.00	0.00
ATOM 295	CA	LEU	A	23	-7.761	-12.400	-1.018	1.00	0.00
ATOM 296	C	LEU	A	23	-8.686	-12.839	-2.151	1.00	0.00
ATOM 297	O	LEU	A	23	-8.673	-12.256	-3.236	1.00	0.00

ATOM 298	CB	LEU A	23	-7.489	-10.898	-1.118	1.00	0.00
ATOM 299	CG	LEU A	23	-8.537	-10.004	-0.454	1.00	0.00
ATOM 300	CD1	LEU A	23	-9.851	-10.064	-1.217	1.00	0.00
ATOM 301	CD2	LEU A	23	-8.743	-10.414	0.997	1.00	0.00
ATOM 302	H	LEU A	23	-6.248	-13.611	-1.872	1.00	0.00
ATOM 303	HA	LEU A	23	-8.244	-12.607	-0.075	1.00	0.00
ATOM 304	1HB	LEU A	23	-6.531	-10.696	-0.663	1.00	0.00
ATOM 305	2HB	LEU A	23	-7.435	-10.633	-2.164	1.00	0.00
ATOM 306	HG	LEU A	23	-8.190	-8.981	-0.467	1.00	0.00
ATOM 307	1HD1	LEU A	23	-10.509	-10.779	-0.746	1.00	0.00
ATOM 308	2HD1	LEU A	23	-9.662	-10.364	-2.236	1.00	0.00
ATOM 309	3HD1	LEU A	23	-10.317	-9.089	-1.210	1.00	0.00
ATOM 310	1HD2	LEU A	23	-9.283	-9.638	1.518	1.00	0.00
ATOM 311	2HD2	LEU A	23	-7.783	-10.563	1.468	1.00	0.00
ATOM 312	3HD2	LEU A	23	-9.308	-11.334	1.035	1.00	0.00
ATOM 313	N	PRO A	24	-9.507	-13.877	-1.913	1.00	0.00
ATOM 314	CA	PRO A	24	-10.443	-14.391	-2.918	1.00	0.00
ATOM 315	C	PRO A	24	-11.342	-13.296	-3.484	1.00	0.00
ATOM 316	O	PRO A	24	-11.644	-12.315	-2.804	1.00	0.00
ATOM 317	CB	PRO A	24	-11.274	-15.417	-2.144	1.00	0.00
ATOM 318	CG	PRO A	24	-10.400	-15.839	-1.013	1.00	0.00
ATOM 319	CD	PRO A	24	-9.588	-14.628	-0.647	1.00	0.00
ATOM 320	HA	PRO A	24	-9.923	-14.880	-3.729	1.00	0.00
ATOM 321	1HB	PRO A	24	-12.184	-14.955	-1.791	1.00	0.00
ATOM 322	2HB	PRO A	24	-11.512	-16.251	-2.788	1.00	0.00
ATOM 323	1HG	PRO A	24	-11.008	-16.150	-0.177	1.00	0.00
ATOM 324	2HG	PRO A	24	-9.752	-16.643	-1.329	1.00	0.00

ATOM 325	1HD	PRO	A	24	-10.094	-14.050	0.113	1.00	0.00
ATOM 326	2HD	PRO	A	24	-8.605	-14.920	-0.309	1.00	0.00
ATOM 327	N	TYR	A	25	-11.767	-13.472	-4.730	1.00	0.00
ATOM 328	CA	TYR	A	25	-12.633	-12.500	-5.387	1.00	0.00
ATOM 329	C	TYR	A	25	-14.048	-13.048	-5.541	1.00	0.00
ATOM 330	O	TYR	A	25	-14.273	-14.018	-6.264	1.00	0.00
ATOM 331	CB	TYR	A	25	-12.067	-12.127	-6.758	1.00	0.00
ATOM 332	CG	TYR	A	25	-12.687	-10.883	-7.353	1.00	0.00
ATOM 333	CD1	TYR	A	25	-12.385	-9.624	-6.848	1.00	0.00
ATOM 334	CD2	TYR	A	25	-13.573	-10.967	-8.418	1.00	0.00
ATOM 335	CE1	TYR	A	25	-12.950	-8.484	-7.389	1.00	0.00
ATOM 336	CE2	TYR	A	25	-14.142	-9.833	-8.965	1.00	0.00
ATOM 337	CZ	TYR	A	25	-13.828	-8.594	-8.446	1.00	0.00
ATOM 338	OH	TYR	A	25	-14.393	-7.462	-8.988	1.00	0.00
ATOM 339	H	TYR	A	25	-11.492	-14.274	-5.220	1.00	0.00
ATOM 340	HA	TYR	A	25	-12.667	-11.615	-4.769	1.00	0.00
ATOM 341	1HB	TYR	A	25	-11.004	-11.956	-6.667	1.00	0.00
ATOM 342	2HB	TYR	A	25	-12.237	-12.944	-7.444	1.00	0.00
ATOM 343	HD1	TYR	A	25	-11.698	-9.541	-6.020	1.00	0.00
ATOM 344	HD2	TYR	A	25	-13.818	-11.938	-8.822	1.00	0.00
ATOM 345	HE1	TYR	A	25	-12.704	-7.514	-6.982	1.00	0.00
ATOM 346	HE2	TYR	A	25	-14.830	-9.919	-9.794	1.00	0.00
ATOM 347	HH	TYR	A	25	-15.345	-7.491	-8.867	1.00	0.00
ATOM 348	N	SER	A	26	-14.998	-12.420	-4.856	1.00	0.00
ATOM 349	CA	SER	A	26	-16.392	-12.846	-4.916	1.00	0.00
ATOM 350	C	SER	A	26	-17.301	-11.683	-5.304	1.00	0.00
ATOM 351	O	SER	A	26	-16.845	-10.549	-5.452	1.00	0.00

ATOM 352	CB	SER A	26	-16.830	-13.424	-3.569	1.00	0.00
ATOM 353	OG	SER A	26	-16.644	-14.828	-3.532	1.00	0.00
ATOM 354	H	SER A	26	-14.757	-11.652	-4.296	1.00	0.00
ATOM 355	HA	SER A	26	-16.471	-13.615	-5.670	1.00	0.00
ATOM 356	1HB	SER A	26	-16.245	-12.975	-2.780	1.00	0.00
ATOM 357	2HB	SER A	26	-17.876	-13.207	-3.409	1.00	0.00
ATOM 358	HG	SER A	26	-17.478	-15.255	-3.320	1.00	0.00
ATOM 359	N	GLN A	27	-18.588	-11.973	-5.465	1.00	0.00
ATOM 360	CA	GLN A	27	-19.562	-10.953	-5.834	1.00	0.00
ATOM 361	C	GLN A	27	-19.609	-9.840	-4.790	1.00	0.00
ATOM 362	O	GLN A	27	-19.920	-8.692	-5.107	1.00	0.00
ATOM 363	CB	GLN A	27	-20.949	-11.578	-5.997	1.00	0.00
ATOM 364	CG	GLN A	27	-21.690	-11.100	-7.235	1.00	0.00
ATOM 365	CD	GLN A	27	-21.759	-12.159	-8.317	1.00	0.00
ATOM 366	OE1	GLN A	27	-20.770	-12.436	-8.996	1.00	0.00
ATOM 367	NE2	GLN A	27	-22.933	-12.758	-8.486	1.00	0.00
ATOM 368	H	GLN A	27	-18.889	-12.896	-5.332	1.00	0.00
ATOM 369	HA	GLN A	27	-19.255	-10.529	-6.779	1.00	0.00
ATOM 370	1HB	GLN A	27	-20.842	-12.651	-6.058	1.00	0.00
ATOM 371	2HB	GLN A	27	-21.546	-11.333	-5.130	1.00	0.00
ATOM 372	1HG	GLN A	27	-22.696	-10.829	-6.954	1.00	0.00
ATOM 373	2HG	GLN A	27	-21.181	-10.233	-7.631	1.00	0.00
ATOM 374	1HE2	GLN A	27	-23.678	-12.486	-7.910	1.00	0.00
ATOM 375	2HE2	GLN A	27	-23.006	-13.446	-9.179	1.00	0.00
ATOM 376	N	ASP A	28	-19.298	-10.187	-3.545	1.00	0.00
ATOM 377	CA	ASP A	28	-19.305	-9.219	-2.454	1.00	0.00
ATOM 378	C	ASP A	28	-18.354	-8.062	-2.747	1.00	0.00

ATOM 379	O	ASP A	28	-18.718	-6.894	-2.606	1.00	0.00
ATOM 380	CB	ASP A	28	-18.913	-9.896	-1.141	1.00	0.00
ATOM 381	CG	ASP A	28	-19.904	-10.965	-0.723	1.00	0.00
ATOM 382	OD1	ASP A	28	-20.070	-11.947	-1.477	1.00	0.00
ATOM 383	OD2	ASP A	28	-20.511	-10.822	0.358	1.00	0.00
ATOM 384	H	ASP A	28	-19.058	-11.119	-3.355	1.00	0.00
ATOM 385	HA	ASP A	28	-20.308	-8.830	-2.363	1.00	0.00
ATOM 386	1HB	ASP A	28	-17.943	-10.356	-1.255	1.00	0.00
ATOM 387	2HB	ASP A	28	-18.864	-9.151	-0.360	1.00	0.00
ATOM 388	N	ILE A	29	-17.134	-8.395	-3.156	1.00	0.00
ATOM 389	CA	ILE A	29	-16.130	-7.385	-3.469	1.00	0.00
ATOM 390	C	ILE A	29	-16.508	-6.593	-4.721	1.00	0.00
ATOM 391	O	ILE A	29	-15.935	-5.538	-4.992	1.00	0.00
ATOM 392	CB	ILE A	29	-14.741	-8.017	-3.677	1.00	0.00
ATOM 393	CG1	ILE A	29	-14.406	-8.959	-2.518	1.00	0.00
ATOM 394	CG2	ILE A	29	-13.680	-6.936	-3.811	1.00	0.00
ATOM 395	CD1	ILE A	29	-14.453	-8.289	-1.161	1.00	0.00
ATOM 396	H	ILE A	29	-16.904	-9.342	-3.250	1.00	0.00
ATOM 397	HA	ILE A	29	-16.070	-6.705	-2.631	1.00	0.00
ATOM 398	HB	ILE A	29	-14.762	-8.583	-4.596	1.00	0.00
ATOM 399	1HG1	ILE A	29	-15.114	-9.774	-2.509	1.00	0.00
ATOM 400	2HG1	ILE A	29	-13.411	-9.353	-2.660	1.00	0.00
ATOM 401	1HG2	ILE A	29	-13.734	-6.272	-2.962	1.00	0.00
ATOM 402	2HG2	ILE A	29	-13.851	-6.375	-4.719	1.00	0.00
ATOM 403	3HG2	ILE A	29	-12.703	-7.394	-3.849	1.00	0.00
ATOM 404	1HD1	ILE A	29	-14.338	-7.222	-1.282	1.00	0.00
ATOM 405	2HD1	ILE A	29	-13.651	-8.669	-0.545	1.00	0.00

ATOM 406	3HD1	ILE	A	29	-15.401	-8.497	-0.688	1.00	0.00
ATOM 407	N	ALA	A	30	-17.473	-7.106	-5.480	1.00	0.00
ATOM 408	CA	ALA	A	30	-17.920	-6.442	-6.698	1.00	0.00
ATOM 409	C	ALA	A	30	-19.094	-5.507	-6.423	1.00	0.00
ATOM 410	O	ALA	A	30	-19.338	-4.565	-7.175	1.00	0.00
ATOM 411	CB	ALA	A	30	-18.301	-7.473	-7.750	1.00	0.00
ATOM 412	H	ALA	A	30	-17.894	-7.950	-5.216	1.00	0.00
ATOM 413	HA	ALA	A	30	-17.093	-5.861	-7.083	1.00	0.00
ATOM 414	1HB	ALA	A	30	-17.977	-7.132	-8.722	1.00	0.00
ATOM 415	2HB	ALA	A	30	-19.373	-7.605	-7.752	1.00	0.00
ATOM 416	3HB	ALA	A	30	-17.822	-8.414	-7.522	1.00	0.00
ATOM 417	N	GLN	A	31	-19.820	-5.774	-5.340	1.00	0.00
ATOM 418	CA	GLN	A	31	-20.969	-4.953	-4.971	1.00	0.00
ATOM 419	C	GLN	A	31	-20.681	-4.154	-3.700	1.00	0.00
ATOM 420	O	GLN	A	31	-20.620	-4.719	-2.608	1.00	0.00
ATOM 421	CB	GLN	A	31	-22.202	-5.834	-4.759	1.00	0.00
ATOM 422	CG	GLN	A	31	-22.968	-6.126	-6.039	1.00	0.00
ATOM 423	CD	GLN	A	31	-23.976	-5.044	-6.374	1.00	0.00
ATOM 424	OE1	GLN	A	31	-24.610	-4.473	-5.487	1.00	0.00
ATOM 425	NE2	GLN	A	31	-24.131	-4.759	-7.662	1.00	0.00
ATOM 426	H	GLN	A	31	-19.579	-6.539	-4.778	1.00	0.00
ATOM 427	HA	GLN	A	31	-21.162	-4.270	-5.782	1.00	0.00
ATOM 428	1HB	GLN	A	31	-21.889	-6.775	-4.331	1.00	0.00
ATOM 429	2HB	GLN	A	31	-22.869	-5.340	-4.070	1.00	0.00
ATOM 430	1HG	GLN	A	31	-22.264	-6.205	-6.854	1.00	0.00
ATOM 431	2HG	GLN	A	31	-23.492	-7.063	-5.924	1.00	0.00
ATOM 432	1HE2	GLN	A	31	-23.593	-5.254	-8.315	1.00	0.00

ATOM 433	2HE2	GLN	A	31	-24.777	-4.063	-7.907	1.00	0.00
ATOM 434	N	PRO	A	32	-20.496	-2.825	-3.822	1.00	0.00
ATOM 435	CA	PRO	A	32	-20.214	-1.956	-2.674	1.00	0.00
ATOM 436	C	PRO	A	32	-21.407	-1.844	-1.728	1.00	0.00
ATOM 437	O	PRO	A	32	-21.952	-0.760	-1.519	1.00	0.00
ATOM 438	CB	PRO	A	32	-19.901	-0.591	-3.306	1.00	0.00
ATOM 439	CG	PRO	A	32	-19.714	-0.856	-4.762	1.00	0.00
ATOM 440	CD	PRO	A	32	-20.544	-2.065	-5.078	1.00	0.00
ATOM 441	HA	PRO	A	32	-19.355	-2.305	-2.120	1.00	0.00
ATOM 442	1HB	PRO	A	32	-20.724	0.086	-3.134	1.00	0.00
ATOM 443	2HB	PRO	A	32	-19.003	-0.187	-2.863	1.00	0.00
ATOM 444	1HG	PRO	A	32	-20.057	-0.009	-5.334	1.00	0.00
ATOM 445	2HG	PRO	A	32	-18.672	-1.052	-4.969	1.00	0.00
ATOM 446	1HD	PRO	A	32	-21.557	-1.777	-5.320	1.00	0.00
ATOM 447	2HD	PRO	A	32	-20.103	-2.626	-5.887	1.00	0.00
ATOM 448	N	SER	A	33	-21.803	-2.974	-1.160	1.00	0.00
ATOM 449	CA	SER	A	33	-22.929	-3.015	-0.235	1.00	0.00
ATOM 450	C	SER	A	33	-22.680	-4.026	0.881	1.00	0.00
ATOM 451	O	SER	A	33	-22.979	-3.765	2.046	1.00	0.00
ATOM 452	CB	SER	A	33	-24.217	-3.370	-0.981	1.00	0.00
ATOM 453	OG	SER	A	33	-25.344	-3.281	-0.127	1.00	0.00
ATOM 454	H	SER	A	33	-21.326	-3.802	-1.369	1.00	0.00
ATOM 455	HA	SER	A	33	-23.036	-2.033	0.201	1.00	0.00
ATOM 456	1HB	SER	A	33	-24.354	-2.686	-1.806	1.00	0.00
ATOM 457	2HB	SER	A	33	-24.146	-4.379	-1.359	1.00	0.00
ATOM 458	HG	SER	A	33	-25.386	-4.063	0.430	1.00	0.00
ATOM 459	N	THR	A	34	-22.131	-5.182	0.516	1.00	0.00

ATOM 460	CA	THR A	34	-21.842	-6.231	1.487	1.00	0.00
ATOM 461	C	THR A	34	-20.760	-5.783	2.465	1.00	0.00
ATOM 462	O	THR A	34	-20.226	-4.680	2.353	1.00	0.00
ATOM 463	CB	THR A	34	-21.399	-7.508	0.771	1.00	0.00
ATOM 464	OG1	THR A	34	-20.070	-7.381	0.296	1.00	0.00
ATOM 465	CG2	THR A	34	-22.276	-7.869	-0.409	1.00	0.00
ATOM 466	H	THR A	34	-21.916	-5.332	-0.428	1.00	0.00
ATOM 467	HA	THR A	34	-22.749	-6.433	2.037	1.00	0.00
ATOM 468	HB	THR A	34	-21.431	-8.330	1.471	1.00	0.00
ATOM 469	HG1	THR A	34	-20.040	-6.720	-0.399	1.00	0.00
ATOM 470	1HG2	THR A	34	-22.387	-8.943	-0.460	1.00	0.00
ATOM 471	2HG2	THR A	34	-21.818	-7.511	-1.319	1.00	0.00
ATOM 472	3HG2	THR A	34	-23.247	-7.412	-0.289	1.00	0.00
ATOM 473	N	THR A	35	-20.444	-6.648	3.423	1.00	0.00
ATOM 474	CA	THR A	35	-19.426	-6.345	4.422	1.00	0.00
ATOM 475	C	THR A	35	-18.029	-6.643	3.886	1.00	0.00
ATOM 476	O	THR A	35	-17.057	-5.988	4.261	1.00	0.00
ATOM 477	CB	THR A	35	-19.677	-7.150	5.698	1.00	0.00
ATOM 478	OG1	THR A	35	-21.064	-7.362	5.893	1.00	0.00
ATOM 479	CG2	THR A	35	-19.134	-6.483	6.943	1.00	0.00
ATOM 480	H	THR A	35	-20.906	-7.512	3.460	1.00	0.00
ATOM 481	HA	THR A	35	-19.493	-5.292	4.653	1.00	0.00
ATOM 482	HB	THR A	35	-19.197	-8.114	5.602	1.00	0.00
ATOM 483	HG1	THR A	35	-21.536	-6.538	5.751	1.00	0.00
ATOM 484	1HG2	THR A	35	-18.223	-5.957	6.702	1.00	0.00
ATOM 485	2HG2	THR A	35	-18.930	-7.233	7.693	1.00	0.00
ATOM 486	3HG2	THR A	35	-19.864	-5.784	7.323	1.00	0.00



ATOM 487	N	LYS A	36	-17.938	-7.637	3.007	1.00	0.00
ATOM 488	CA	LYS A	36	-16.661	-8.025	2.420	1.00	0.00
ATOM 489	C	LYS A	36	-16.035	-6.863	1.653	1.00	0.00
ATOM 490	O	LYS A	36	-14.818	-6.680	1.669	1.00	0.00
ATOM 491	CB	LYS A	36	-16.848	-9.224	1.489	1.00	0.00
ATOM 492	CG	LYS A	36	-15.669	-10.182	1.487	1.00	0.00
ATOM 493	CD	LYS A	36	-16.096	-11.589	1.099	1.00	0.00
ATOM 494	CE	LYS A	36	-15.147	-12.638	1.660	1.00	0.00
ATOM 495	NZ	LYS A	36	-14.445	-13.387	0.582	1.00	0.00
ATOM 496	H	LYS A	36	-18.749	-8.122	2.749	1.00	0.00
ATOM 497	HA	LYS A	36	-15.998	-8.306	3.225	1.00	0.00
ATOM 498	1HB	LYS A	36	-17.728	-9.769	1.797	1.00	0.00
ATOM 499	2HB	LYS A	36	-16.993	-8.863	0.481	1.00	0.00
ATOM 500	1HG	LYS A	36	-14.934	-9.832	0.778	1.00	0.00
ATOM 501	2HG	LYS A	36	-15.235	-10.206	2.476	1.00	0.00
ATOM 502	1HD	LYS A	36	-17.088	-11.774	1.485	1.00	0.00
ATOM 503	2HD	LYS A	36	-16.107	-11.667	0.021	1.00	0.00
ATOM 504	1HE	LYS A	36	-14.412	-12.146	2.280	1.00	0.00
ATOM 505	2HE	LYS A	36	-15.715	-13.334	2.260	1.00	0.00
ATOM 506	1HZ	LYS A	36	-15.127	-13.694	-0.142	1.00	0.00
ATOM 507	2HZ	LYS A	36	-13.974	-14.225	0.977	1.00	0.00
ATOM 508	3HZ	LYS A	36	-13.729	-12.780	0.132	1.00	0.00
ATOM 509	N	TYR A	37	-16.875	-6.083	0.983	1.00	0.00
ATOM 510	CA	TYR A	37	-16.404	-4.940	0.208	1.00	0.00
ATOM 511	C	TYR A	37	-15.965	-3.803	1.127	1.00	0.00
ATOM 512	O	TYR A	37	-14.976	-3.121	0.857	1.00	0.00
ATOM 513	CB	TYR A	37	-17.504	-4.453	-0.739	1.00	0.00

ATOM 514	CG	TYR A	37	-17.121	-3.229	-1.541	1.00	0.00
ATOM 515	CD1	TYR A	37	-17.094	-1.971	-0.953	1.00	0.00
ATOM 516	CD2	TYR A	37	-16.789	-3.332	-2.885	1.00	0.00
ATOM 517	CE1	TYR A	37	-16.746	-0.850	-1.683	1.00	0.00
ATOM 518	CE2	TYR A	37	-16.440	-2.216	-3.621	1.00	0.00
ATOM 519	CZ	TYR A	37	-16.420	-0.978	-3.016	1.00	0.00
ATOM 520	OH	TYR A	37	-16.072	0.136	-3.746	1.00	0.00
ATOM 521	H	TYR A	37	-17.835	-6.280	1.008	1.00	0.00
ATOM 522	HA	TYR A	37	-15.555	-5.264	-0.375	1.00	0.00
ATOM 523	1HB	TYR A	37	-17.742	-5.242	-1.436	1.00	0.00
ATOM 524	2HB	TYR A	37	-18.384	-4.212	-0.162	1.00	0.00
ATOM 525	HD1	TYR A	37	-17.350	-1.873	0.092	1.00	0.00
ATOM 526	HD2	TYR A	37	-16.805	-4.303	-3.356	1.00	0.00
ATOM 527	HE1	TYR A	37	-16.731	0.121	-1.207	1.00	0.00
ATOM 528	HE2	TYR A	37	-16.184	-2.317	-4.666	1.00	0.00
ATOM 529	HH	TYR A	37	-15.120	0.256	-3.715	1.00	0.00
ATOM 530	N	GLN A	38	-16.706	-3.604	2.211	1.00	0.00
ATOM 531	CA	GLN A	38	-16.393	-2.547	3.167	1.00	0.00
ATOM 532	C	GLN A	38	-15.243	-2.959	4.082	1.00	0.00
ATOM 533	O	GLN A	38	-14.474	-2.118	4.545	1.00	0.00
ATOM 534	CB	GLN A	38	-17.628	-2.206	4.003	1.00	0.00
ATOM 535	CG	GLN A	38	-18.886	-2.003	3.173	1.00	0.00
ATOM 536	CD	GLN A	38	-19.534	-0.653	3.414	1.00	0.00
ATOM 537	OE1	GLN A	38	-19.236	0.026	4.396	1.00	0.00
ATOM 538	NE2	GLN A	38	-20.427	-0.256	2.515	1.00	0.00
ATOM 539	H	GLN A	38	-17.483	-4.179	2.372	1.00	0.00
ATOM 540	HA	GLN A	38	-16.095	-1.673	2.608	1.00	0.00

ATOM 541	1HB	GLN	A	38	-17.809	-3.011	4.701	1.00	0.00
ATOM 542	2HB	GLN	A	38	-17.435	-1.298	4.556	1.00	0.00
ATOM 543	1HG	GLN	A	38	-18.629	-2.078	2.128	1.00	0.00
ATOM 544	2HG	GLN	A	38	-19.596	-2.777	3.425	1.00	0.00
ATOM 545	1HE2	GLN	A	38	-20.615	-0.849	1.758	1.00	0.00
ATOM 546	2HE2	GLN	A	38	-20.861	0.612	2.646	1.00	0.00
ATOM 547	N	GLN	A	39	-15.133	-4.258	4.339	1.00	0.00
ATOM 548	CA	GLN	A	39	-14.078	-4.780	5.200	1.00	0.00
ATOM 549	C	GLN	A	39	-12.716	-4.667	4.523	1.00	0.00
ATOM 550	O	GLN	A	39	-11.788	-4.070	5.070	1.00	0.00
ATOM 551	CB	GLN	A	39	-14.362	-6.239	5.563	1.00	0.00
ATOM 552	CG	GLN	A	39	-15.058	-6.408	6.904	1.00	0.00
ATOM 553	CD	GLN	A	39	-14.436	-7.498	7.755	1.00	0.00
ATOM 554	OE1	GLN	A	39	-13.315	-7.938	7.498	1.00	0.00
ATOM 555	NE2	GLN	A	39	-15.162	-7.939	8.775	1.00	0.00
ATOM 556	H	GLN	A	39	-15.777	-4.881	3.942	1.00	0.00
ATOM 557	HA	GLN	A	39	-14.067	-4.190	6.104	1.00	0.00
ATOM 558	1HB	GLN	A	39	-14.990	-6.673	4.799	1.00	0.00
ATOM 559	2HB	GLN	A	39	-13.427	-6.779	5.596	1.00	0.00
ATOM 560	1HG	GLN	A	39	-15.001	-5.475	7.444	1.00	0.00
ATOM 561	2HG	GLN	A	39	-16.095	-6.657	6.727	1.00	0.00
ATOM 562	1HE2	GLN	A	39	-16.047	-7.543	8.919	1.00	0.00
ATOM 563	2HE2	GLN	A	39	-14.785	-8.643	9.341	1.00	0.00
ATOM 564	N	THR	A	40	-12.602	-5.245	3.332	1.00	0.00
ATOM 565	CA	THR	A	40	-11.352	-5.212	2.580	1.00	0.00
ATOM 566	C	THR	A	40	-10.914	-3.775	2.311	1.00	0.00
ATOM 567	O	THR	A	40	-9.753	-3.422	2.513	1.00	0.00

ATOM 568	CB	THR A	40	-11.506	-5.966	1.259	1.00	0.00
ATOM 569	OG1	THR A	40	-12.150	-7.211	1.465	1.00	0.00
ATOM 570	CG2	THR A	40	-10.189	-6.238	0.568	1.00	0.00
ATOM 571	H	THR A	40	-13.377	-5.707	2.949	1.00	0.00
ATOM 572	HA	THR A	40	-10.595	-5.700	3.176	1.00	0.00
ATOM 573	HB	THR A	40	-12.116	-5.376	0.589	1.00	0.00
ATOM 574	HG1	THR A	40	-11.653	-7.727	2.105	1.00	0.00
ATOM 575	1HG2	THR A	40	-9.376	-5.918	1.202	1.00	0.00
ATOM 576	2HG2	THR A	40	-10.153	-5.697	-0.365	1.00	0.00
ATOM 577	3HG2	THR A	40	-10.096	-7.297	0.372	1.00	0.00
ATOM 578	N	LYS A	41	-11.850	-2.952	1.849	1.00	0.00
ATOM 579	CA	LYS A	41	-11.559	-1.555	1.548	1.00	0.00
ATOM 580	C	LYS A	41	-11.019	-0.830	2.777	1.00	0.00
ATOM 581	O	LYS A	41	-10.145	0.030	2.669	1.00	0.00
ATOM 582	CB	LYS A	41	-12.817	-0.848	1.038	1.00	0.00
ATOM 583	CG	LYS A	41	-12.550	0.539	0.477	1.00	0.00
ATOM 584	CD	LYS A	41	-13.815	1.161	-0.095	1.00	0.00
ATOM 585	CE	LYS A	41	-13.543	2.533	-0.693	1.00	0.00
ATOM 586	NZ	LYS A	41	-13.978	2.615	-2.114	1.00	0.00
ATOM 587	H	LYS A	41	-12.758	-3.293	1.707	1.00	0.00
ATOM 588	HA	LYS A	41	-10.808	-1.533	0.774	1.00	0.00
ATOM 589	1HB	LYS A	41	-13.262	-1.449	0.259	1.00	0.00
ATOM 590	2HB	LYS A	41	-13.520	-0.756	1.853	1.00	0.00
ATOM 591	1HG	LYS A	41	-12.178	1.171	1.270	1.00	0.00
ATOM 592	2HG	LYS A	41	-11.810	0.464	-0.305	1.00	0.00
ATOM 593	1HD	LYS A	41	-14.204	0.514	-0.867	1.00	0.00
ATOM 594	2HD	LYS A	41	-14.544	1.261	0.695	1.00	0.00

ATOM 595	1HE	LYS	A	41	-14.078	3.274	-0.119	1.00	0.00
ATOM 596	2HE	LYS	A	41	-12.482	2.732	-0.638	1.00	0.00
ATOM 597	1HZ	LYS	A	41	-13.470	1.910	-2.686	1.00	0.00
ATOM 598	2HZ	LYS	A	41	-13.779	3.562	-2.495	1.00	0.00
ATOM 599	3HZ	LYS	A	41	-14.999	2.432	-2.186	1.00	0.00
ATOM 600	N	ARG	A	42	-11.545	-1.181	3.946	1.00	0.00
ATOM 601	CA	ARG	A	42	-11.117	-0.561	5.195	1.00	0.00
ATOM 602	C	ARG	A	42	-9.847	-1.220	5.725	1.00	0.00
ATOM 603	O	ARG	A	42	-8.974	-0.552	6.278	1.00	0.00
ATOM 604	CB	ARG	A	42	-12.226	-0.653	6.243	1.00	0.00
ATOM 605	CG	ARG	A	42	-12.284	0.550	7.173	1.00	0.00
ATOM 606	CD	ARG	A	42	-13.639	1.241	7.122	1.00	0.00
ATOM 607	NE	ARG	A	42	-13.564	2.546	6.467	1.00	0.00
ATOM 608	CZ	ARG	A	42	-13.683	2.728	5.152	1.00	0.00
ATOM 609	NH1	ARG	A	42	-13.877	1.694	4.344	1.00	0.00
ATOM 610	NH2	ARG	A	42	-13.604	3.950	4.646	1.00	0.00
ATOM 611	H	ARG	A	42	-12.240	-1.872	3.970	1.00	0.00
ATOM 612	HA	ARG	A	42	-10.910	0.479	4.994	1.00	0.00
ATOM 613	1HB	ARG	A	42	-13.176	-0.739	5.738	1.00	0.00
ATOM 614	2HB	ARG	A	42	-12.066	-1.536	6.843	1.00	0.00
ATOM 615	1HG	ARG	A	42	-12.100	0.220	8.184	1.00	0.00
ATOM 616	2HG	ARG	A	42	-11.519	1.255	6.880	1.00	0.00
ATOM 617	1HD	ARG	A	42	-14.331	0.615	6.581	1.00	0.00
ATOM 618	2HD	ARG	A	42	-13.996	1.378	8.133	1.00	0.00
ATOM 619	HE	ARG	A	42	-13.419	3.330	7.037	1.00	0.00
ATOM 620	1HH1	ARG	A	42	-13.937	0.770	4.717	1.00	0.00
ATOM 621	2HH1	ARG	A	42	-13.966	1.841	3.358	1.00	0.00

ATOM 622	1HH2	ARG	A	42	-13.457	4.734	5.248	1.00	0.00
ATOM 623	2HH2	ARG	A	42	-13.693	4.089	3.659	1.00	0.00
ATOM 624	N	SER	A	43	-9.750	-2.535	5.553	1.00	0.00
ATOM 625	CA	SER	A	43	-8.587	-3.282	6.015	1.00	0.00
ATOM 626	C	SER	A	43	-7.321	-2.818	5.300	1.00	0.00
ATOM 627	O	SER	A	43	-6.333	-2.460	5.940	1.00	0.00
ATOM 628	CB	SER	A	43	-8.797	-4.783	5.789	1.00	0.00
ATOM 629	OG	SER	A	43	-8.842	-5.482	7.021	1.00	0.00
ATOM 630	H	SER	A	43	-10.479	-3.013	5.104	1.00	0.00
ATOM 631	HA	SER	A	43	-8.476	-3.099	7.073	1.00	0.00
ATOM 632	1HB	SER	A	43	-9.730	-4.938	5.268	1.00	0.00
ATOM 633	2HB	SER	A	43	-7.984	-5.175	5.196	1.00	0.00
ATOM 634	HG	SER	A	43	-8.137	-5.169	7.593	1.00	0.00
ATOM 635	N	ILE	A	44	-7.360	-2.824	3.972	1.00	0.00
ATOM 636	CA	ILE	A	44	-6.216	-2.401	3.173	1.00	0.00
ATOM 637	C	ILE	A	44	-5.861	-0.943	3.451	1.00	0.00
ATOM 638	O	ILE	A	44	-4.690	-0.599	3.604	1.00	0.00
ATOM 639	CB	ILE	A	44	-6.486	-2.579	1.664	1.00	0.00
ATOM 640	CG1	ILE	A	44	-6.918	-4.017	1.367	1.00	0.00
ATOM 641	CG2	ILE	A	44	-5.250	-2.215	0.851	1.00	0.00
ATOM 642	CD1	ILE	A	44	-7.345	-4.235	-0.068	1.00	0.00
ATOM 643	H	ILE	A	44	-8.178	-3.119	3.520	1.00	0.00
ATOM 644	HA	ILE	A	44	-5.374	-3.023	3.442	1.00	0.00
ATOM 645	HB	ILE	A	44	-7.282	-1.907	1.382	1.00	0.00
ATOM 646	1HG1	ILE	A	44	-6.093	-4.683	1.571	1.00	0.00
ATOM 647	2HG1	ILE	A	44	-7.750	-4.277	2.005	1.00	0.00
ATOM 648	1HG2	ILE	A	44	-4.781	-3.117	0.484	1.00	0.00

ATOM 649	2HG2	ILE	A	44	-4.553	-1.676	1.475	1.00	0.00
ATOM 650	3HG2	ILE	A	44	-5.539	-1.595	0.016	1.00	0.00
ATOM 651	1HD1	ILE	A	44	-6.832	-5.096	-0.470	1.00	0.00
ATOM 652	2HD1	ILE	A	44	-7.097	-3.362	-0.654	1.00	0.00
ATOM 653	3HD1	ILE	A	44	-8.411	-4.402	-0.105	1.00	0.00
ATOM 654	N	GLU	A	45	-6.880	-0.092	3.517	1.00	0.00
ATOM 655	CA	GLU	A	45	-6.672	1.327	3.778	1.00	0.00
ATOM 656	C	GLU	A	45	-5.979	1.534	5.121	1.00	0.00
ATOM 657	O	GLU	A	45	-5.209	2.479	5.295	1.00	0.00
ATOM 658	CB	GLU	A	45	-8.010	2.070	3.758	1.00	0.00
ATOM 659	CG	GLU	A	45	-8.250	2.858	2.480	1.00	0.00
ATOM 660	CD	GLU	A	45	-8.448	4.339	2.735	1.00	0.00
ATOM 661	OE1	GLU	A	45	-7.801	5.153	2.043	1.00	0.00
ATOM 662	OE2	GLU	A	45	-9.251	4.686	3.627	1.00	0.00
ATOM 663	H	GLU	A	45	-7.793	-0.426	3.387	1.00	0.00
ATOM 664	HA	GLU	A	45	-6.041	1.719	2.995	1.00	0.00
ATOM 665	1HB	GLU	A	45	-8.809	1.351	3.867	1.00	0.00
ATOM 666	2HB	GLU	A	45	-8.041	2.756	4.590	1.00	0.00
ATOM 667	1HG	GLU	A	45	-7.396	2.732	1.830	1.00	0.00
ATOM 668	2HG	GLU	A	45	-9.133	2.469	1.993	1.00	0.00
ATOM 669	N	ASN	A	46	-6.257	0.643	6.067	1.00	0.00
ATOM 670	CA	ASN	A	46	-5.661	0.724	7.395	1.00	0.00
ATOM 671	C	ASN	A	46	-4.230	0.196	7.382	1.00	0.00
ATOM 672	O	ASN	A	46	-3.342	0.766	8.017	1.00	0.00
ATOM 673	CB	ASN	A	46	-6.501	-0.067	8.400	1.00	0.00
ATOM 674	CG	ASN	A	46	-5.963	0.035	9.814	1.00	0.00
ATOM 675	OD1	ASN	A	46	-5.203	0.949	10.138	1.00	0.00

ATOM 676	ND2	ASN	A	46	-6.354	-0.906	10.666	1.00	0.00
ATOM 677	H	ASN	A	46	-6.879	-0.088	5.866	1.00	0.00
ATOM 678	HA	ASN	A	46	-5.648	1.762	7.690	1.00	0.00
ATOM 679	1HB	ASN	A	46	-7.512	0.311	8.392	1.00	0.00
ATOM 680	2HB	ASN	A	46	-6.509	-1.109	8.111	1.00	0.00
ATOM 681	1HD2	ASN	A	46	-6.960	-1.603	10.337	1.00	0.00
ATOM 682	2HD2	ASN	A	46	-6.022	-0.865	11.586	1.00	0.00
ATOM 683	N	ALA	A	47	-4.013	-0.893	6.653	1.00	0.00
ATOM 684	CA	ALA	A	47	-2.688	-1.496	6.557	1.00	0.00
ATOM 685	C	ALA	A	47	-1.718	-0.571	5.831	1.00	0.00
ATOM 686	O	ALA	A	47	-0.525	-0.544	6.136	1.00	0.00
ATOM 687	CB	ALA	A	47	-2.771	-2.841	5.851	1.00	0.00
ATOM 688	H	ALA	A	47	-4.760	-1.302	6.169	1.00	0.00
ATOM 689	HA	ALA	A	47	-2.325	-1.666	7.561	1.00	0.00
ATOM 690	1HB	ALA	A	47	-2.783	-3.634	6.585	1.00	0.00
ATOM 691	2HB	ALA	A	47	-1.914	-2.963	5.204	1.00	0.00
ATOM 692	3HB	ALA	A	47	-3.674	-2.883	5.261	1.00	0.00
ATOM 693	N	LEU	A	48	-2.237	0.186	4.871	1.00	0.00
ATOM 694	CA	LEU	A	48	-1.418	1.114	4.101	1.00	0.00
ATOM 695	C	LEU	A	48	-1.064	2.343	4.932	1.00	0.00
ATOM 696	O	LEU	A	48	0.003	2.933	4.763	1.00	0.00
ATOM 697	CB	LEU	A	48	-2.152	1.539	2.828	1.00	0.00
ATOM 698	CG	LEU	A	48	-2.282	0.450	1.761	1.00	0.00
ATOM 699	CD1	LEU	A	48	-3.370	0.810	0.762	1.00	0.00
ATOM 700	CD2	LEU	A	48	-0.952	0.239	1.051	1.00	0.00
ATOM 701	H	LEU	A	48	-3.196	0.120	4.676	1.00	0.00
ATOM 702	HA	LEU	A	48	-0.507	0.604	3.828	1.00	0.00



ATOM 703	1HB	LEU	A	48	-3.144	1.866	3.102	1.00	0.00
ATOM 704	2HB	LEU	A	48	-1.622	2.373	2.395	1.00	0.00
ATOM 705	HG	LEU	A	48	-2.560	-0.479	2.236	1.00	0.00
ATOM 706	1HD1	LEU	A	48	-2.924	1.277	-0.104	1.00	0.00
ATOM 707	2HD1	LEU	A	48	-4.069	1.495	1.220	1.00	0.00
ATOM 708	3HD1	LEU	A	48	-3.891	-0.086	0.459	1.00	0.00
ATOM 709	1HD2	LEU	A	48	-0.916	0.858	0.166	1.00	0.00
ATOM 710	2HD2	LEU	A	48	-0.856	-0.799	0.771	1.00	0.00
ATOM 711	3HD2	LEU	A	48	-0.145	0.510	1.714	1.00	0.00
ATOM 712	N	ASN	A	49	-1.968	2.724	5.829	1.00	0.00
ATOM 713	CA	ASN	A	49	-1.753	3.883	6.687	1.00	0.00
ATOM 714	C	ASN	A	49	-0.504	3.703	7.544	1.00	0.00
ATOM 715	O	ASN	A	49	0.423	4.511	7.484	1.00	0.00
ATOM 716	CB	ASN	A	49	-2.974	4.113	7.582	1.00	0.00
ATOM 717	CG	ASN	A	49	-3.437	5.556	7.567	1.00	0.00
ATOM 718	OD1	ASN	A	49	-2.758	6.444	8.083	1.00	0.00
ATOM 719	ND2	ASN	A	49	-4.600	5.798	6.974	1.00	0.00
ATOM 720	H	ASN	A	49	-2.800	2.212	5.916	1.00	0.00
ATOM 721	HA	ASN	A	49	-1.618	4.745	6.051	1.00	0.00
ATOM 722	1HB	ASN	A	49	-3.787	3.491	7.238	1.00	0.00
ATOM 723	2HB	ASN	A	49	-2.725	3.844	8.598	1.00	0.00
ATOM 724	1HD2	ASN	A	49	-5.088	5.042	6.584	1.00	0.00
ATOM 725	2HD2	ASN	A	49	-4.924	6.722	6.950	1.00	0.00
ATOM 726	N	GLN	A	50	-0.486	2.639	8.338	1.00	0.00
ATOM 727	CA	GLN	A	50	0.649	2.351	9.208	1.00	0.00
ATOM 728	C	GLN	A	50	1.920	2.141	8.392	1.00	0.00
ATOM 729	O	GLN	A	50	3.022	2.443	8.852	1.00	0.00

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ATOM 730	CB	GLN A	50	0.365	1.114	10.060	1.00	0.00
ATOM 731	CG	GLN A	50	0.052	-0.129	9.242	1.00	0.00
ATOM 732	CD	GLN A	50	-0.980	-1.019	9.908	1.00	0.00
ATOM 733	OE1	GLN A	50	-2.153	-0.662	10.005	1.00	0.00
ATOM 734	NE2	GLN A	50	-0.545	-2.185	10.370	1.00	0.00
ATOM 735	H	GLN A	50	-1.255	2.031	8.342	1.00	0.00
ATOM 736	HA	GLN A	50	0.790	3.201	9.859	1.00	0.00
ATOM 737	1HB	GLN A	50	1.229	0.906	10.673	1.00	0.00
ATOM 738	2HB	GLN A	50	-0.480	1.318	10.701	1.00	0.00
ATOM 739	1HG	GLN A	50	-0.327	0.176	8.278	1.00	0.00
ATOM 740	2HG	GLN A	50	0.962	-0.695	9.108	1.00	0.00
ATOM 741	1HE2	GLN A	50	0.405	-2.403	10.257	1.00	0.00
ATOM 742	2HE2	GLN A	50	-1.189	-2.781	10.805	1.00	0.00
ATOM 743	N	LEU A	51	1.761	1.621	7.179	1.00	0.00
ATOM 744	CA	LEU A	51	2.897	1.369	6.300	1.00	0.00
ATOM 745	C	LEU A	51	3.625	2.667	5.966	1.00	0.00
ATOM 746	O	LEU A	51	4.854	2.711	5.936	1.00	0.00
ATOM 747	CB	LEU A	51	2.431	0.686	5.013	1.00	0.00
ATOM 748	CG	LEU A	51	3.543	0.038	4.184	1.00	0.00
ATOM 749	CD1	LEU A	51	3.007	-1.161	3.419	1.00	0.00
ATOM 750	CD2	LEU A	51	4.156	1.052	3.230	1.00	0.00
ATOM 751	H	LEU A	51	0.859	1.400	6.868	1.00	0.00
ATOM 752	HA	LEU A	51	3.579	0.712	6.819	1.00	0.00
ATOM 753	1HB	LEU A	51	1.713	-0.077	5.274	1.00	0.00
ATOM 754	2HB	LEU A	51	1.939	1.425	4.396	1.00	0.00
ATOM 755	HG	LEU A	51	4.320	-0.310	4.849	1.00	0.00
ATOM 756	1HD1	LEU A	51	2.305	-0.826	2.669	1.00	0.00

ATOM 757	2HD1	LEU	A	51	2.508	-1.831	4.103	1.00	0.00
ATOM 758	3HD1	LEU	A	51	3.826	-1.679	2.941	1.00	0.00
ATOM 759	1HD2	LEU	A	51	4.912	1.622	3.749	1.00	0.00
ATOM 760	2HD2	LEU	A	51	3.387	1.718	2.869	1.00	0.00
ATOM 761	3HD2	LEU	A	51	4.605	0.534	2.395	1.00	0.00
ATOM 762	N	PHE	A	52	2.857	3.723	5.715	1.00	0.00
ATOM 763	CA	PHE	A	52	3.429	5.022	5.383	1.00	0.00
ATOM 764	C	PHE	A	52	4.103	5.648	6.599	1.00	0.00
ATOM 765	O	PHE	A	52	5.103	6.355	6.472	1.00	0.00
ATOM 766	CB	PHE	A	52	2.344	5.958	4.846	1.00	0.00
ATOM 767	CG	PHE	A	52	1.500	5.344	3.766	1.00	0.00
ATOM 768	CD1	PHE	A	52	0.125	5.515	3.761	1.00	0.00
ATOM 769	CD2	PHE	A	52	2.082	4.597	2.754	1.00	0.00
ATOM 770	CE1	PHE	A	52	-0.654	4.953	2.768	1.00	0.00
ATOM 771	CE2	PHE	A	52	1.308	4.032	1.758	1.00	0.00
ATOM 772	CZ	PHE	A	52	-0.061	4.210	1.765	1.00	0.00
ATOM 773	H	PHE	A	52	1.884	3.625	5.754	1.00	0.00
ATOM 774	HA	PHE	A	52	4.172	4.870	4.613	1.00	0.00
ATOM 775	1HB	PHE	A	52	1.690	6.240	5.658	1.00	0.00
ATOM 776	2HB	PHE	A	52	2.810	6.844	4.442	1.00	0.00
ATOM 777	HD1	PHE	A	52	-0.339	6.096	4.544	1.00	0.00
ATOM 778	HD2	PHE	A	52	3.153	4.456	2.747	1.00	0.00
ATOM 779	HE1	PHE	A	52	-1.724	5.094	2.776	1.00	0.00
ATOM 780	HE2	PHE	A	52	1.774	3.452	0.975	1.00	0.00
ATOM 781	HZ	PHE	A	52	-0.668	3.770	0.987	1.00	0.00
ATOM 782	N	ARG	A	53	3.549	5.383	7.777	1.00	0.00
ATOM 783	CA	ARG	A	53	4.096	5.920	9.017	1.00	0.00

ATOM 784	C	ARG	A	53	5.370	5.183	9.417	1.00	0.00
ATOM 785	O	ARG	A	53	6.237	5.742	10.090	1.00	0.00
ATOM 786	CB	ARG	A	53	3.062	5.822	10.141	1.00	0.00
ATOM 787	CG	ARG	A	53	1.811	6.648	9.890	1.00	0.00
ATOM 788	CD	ARG	A	53	0.934	6.721	11.131	1.00	0.00
ATOM 789	NE	ARG	A	53	0.214	7.989	11.218	1.00	0.00
ATOM 790	CZ	ARG	A	53	0.761	9.125	11.643	1.00	0.00
ATOM 791	NH1	ARG	A	53	2.033	9.155	12.021	1.00	0.00
ATOM 792	NH2	ARG	A	53	0.035	10.233	11.691	1.00	0.00
ATOM 793	H	ARG	A	53	2.753	4.813	7.814	1.00	0.00
ATOM 794	HA	ARG	A	53	4.334	6.960	8.850	1.00	0.00
ATOM 795	1HB	ARG	A	53	2.769	4.789	10.254	1.00	0.00
ATOM 796	2HB	ARG	A	53	3.513	6.162	11.061	1.00	0.00
ATOM 797	1HG	ARG	A	53	2.102	7.649	9.609	1.00	0.00
ATOM 798	2HG	ARG	A	53	1.247	6.196	9.088	1.00	0.00
ATOM 799	1HD	ARG	A	53	0.218	5.913	11.097	1.00	0.00
ATOM 800	2HD	ARG	A	53	1.559	6.611	12.004	1.00	0.00
ATOM 801	HE	ARG	A	53	-0.728	7.995	10.946	1.00	0.00
ATOM 802	1HH1	ARG	A	53	2.586	8.323	11.989	1.00	0.00
ATOM 803	2HH1	ARG	A	53	2.439	10.013	12.339	1.00	0.00
ATOM 804	1HH2	ARG	A	53	-0.924	10.215	11.408	1.00	0.00
ATOM 805	2HH2	ARG	A	53	0.446	11.087	12.010	1.00	0.00
ATOM 806	N	ASN	A	54	5.477	3.924	9.002	1.00	0.00
ATOM 807	CA	ASN	A	54	6.646	3.112	9.319	1.00	0.00
ATOM 808	C	ASN	A	54	7.666	3.145	8.183	1.00	0.00
ATOM 809	O	ASN	A	54	8.860	2.944	8.404	1.00	0.00
ATOM 810	CB	ASN	A	54	6.227	1.668	9.601	1.00	0.00

ATOM 811	CG	ASN A	54	5.782	1.466	11.036	1.00	0.00
ATOM 812	OD1	ASN A	54	6.481	1.846	11.974	1.00	0.00
ATOM 813	ND2	ASN A	54	4.611	0.865	11.213	1.00	0.00
ATOM 814	H	ASN A	54	4.754	3.532	8.469	1.00	0.00
ATOM 815	HA	ASN A	54	7.102	3.523	10.207	1.00	0.00
ATOM 816	1HB	ASN A	54	5.408	1.403	8.949	1.00	0.00
ATOM 817	2HB	ASN A	54	7.063	1.013	9.406	1.00	0.00
ATOM 818	1HD2	ASN A	54	4.107	0.589	10.419	1.00	0.00
ATOM 819	2HD2	ASN A	54	4.298	0.722	12.130	1.00	0.00
ATOM 820	N	SER A	55	7.189	3.398	6.967	1.00	0.00
ATOM 821	CA	SER A	55	8.063	3.454	5.800	1.00	0.00
ATOM 822	C	SER A	55	9.190	4.462	6.006	1.00	0.00
ATOM 823	O	SER A	55	9.173	5.240	6.959	1.00	0.00
ATOM 824	CB	SER A	55	7.259	3.822	4.552	1.00	0.00
ATOM 825	OG	SER A	55	6.706	5.121	4.666	1.00	0.00
ATOM 826	H	SER A	55	6.228	3.548	6.852	1.00	0.00
ATOM 827	HA	SER A	55	8.494	2.474	5.662	1.00	0.00
ATOM 828	1HB	SER A	55	7.906	3.795	3.688	1.00	0.00
ATOM 829	2HB	SER A	55	6.455	3.112	4.422	1.00	0.00
ATOM 830	HG	SER A	55	6.330	5.234	5.542	1.00	0.00
ATOM 831	N	SER A	56	10.168	4.440	5.107	1.00	0.00
ATOM 832	CA	SER A	56	11.304	5.351	5.190	1.00	0.00
ATOM 833	C	SER A	56	10.885	6.778	4.849	1.00	0.00
ATOM 834	O	SER A	56	11.462	7.742	5.354	1.00	0.00
ATOM 835	CB	SER A	56	12.418	4.895	4.246	1.00	0.00
ATOM 836	OG	SER A	56	13.694	5.252	4.751	1.00	0.00
ATOM 837	H	SER A	56	10.125	3.796	4.369	1.00	0.00

ATOM 838	HA	SER A	56	11.672	5.329	6.204	1.00	0.00
ATOM 839	1HB	SER A	56	12.376	3.822	4.134	1.00	0.00
ATOM 840	2HB	SER A	56	12.283	5.362	3.281	1.00	0.00
ATOM 841	HG	SER A	56	13.781	4.936	5.653	1.00	0.00
ATOM 842	N	ILE A	57	9.878	6.905	3.991	1.00	0.00
ATOM 843	CA	ILE A	57	9.382	8.214	3.583	1.00	0.00
ATOM 844	C	ILE A	57	8.121	8.588	4.356	1.00	0.00
ATOM 845	O	ILE A	57	7.121	9.008	3.772	1.00	0.00
ATOM 846	CB	ILE A	57	9.080	8.255	2.071	1.00	0.00
ATOM 847	CG1	ILE A	57	8.265	7.030	1.656	1.00	0.00
ATOM 848	CG2	ILE A	57	10.374	8.331	1.275	1.00	0.00
ATOM 849	CD1	ILE A	57	7.652	7.150	0.277	1.00	0.00
ATOM 850	H	ILE A	57	9.459	6.099	3.623	1.00	0.00
ATOM 851	HA	ILE A	57	10.151	8.942	3.795	1.00	0.00
ATOM 852	HB	ILE A	57	8.508	9.147	1.866	1.00	0.00
ATOM 853	1HG1	ILE A	57	8.905	6.161	1.659	1.00	0.00
ATOM 854	2HG1	ILE A	57	7.462	6.883	2.364	1.00	0.00
ATOM 855	1HG2	ILE A	57	11.143	7.767	1.782	1.00	0.00
ATOM 856	2HG2	ILE A	57	10.684	9.362	1.188	1.00	0.00
ATOM 857	3HG2	ILE A	57	10.216	7.919	0.290	1.00	0.00
ATOM 858	1HD1	ILE A	57	8.386	7.544	-0.410	1.00	0.00
ATOM 859	2HD1	ILE A	57	6.803	7.815	0.318	1.00	0.00
ATOM 860	3HD1	ILE A	57	7.332	6.175	-0.059	1.00	0.00
ATOM 861	N	LYS A	58	8.174	8.432	5.674	1.00	0.00
ATOM 862	CA	LYS A	58	7.038	8.753	6.530	1.00	0.00
ATOM 863	C	LYS A	58	7.034	10.235	6.897	1.00	0.00
ATOM 864	O	LYS A	58	7.046	10.594	8.075	1.00	0.00

ATOM 865	CB	LYS A	58	7.071	7.897	7.799	1.00	0.00
ATOM 866	CG	LYS A	58	8.267	8.181	8.694	1.00	0.00
ATOM 867	CD	LYS A	58	8.764	6.918	9.381	1.00	0.00
ATOM 868	CE	LYS A	58	8.632	7.015	10.893	1.00	0.00
ATOM 869	NZ	LYS A	58	9.915	7.407	11.539	1.00	0.00
ATOM 870	H	LYS A	58	8.999	8.094	6.083	1.00	0.00
ATOM 871	HA	LYS A	58	6.136	8.530	5.979	1.00	0.00
ATOM 872	1HB	LYS A	58	6.171	8.082	8.367	1.00	0.00
ATOM 873	2HB	LYS A	58	7.099	6.855	7.515	1.00	0.00
ATOM 874	1HG	LYS A	58	9.065	8.588	8.091	1.00	0.00
ATOM 875	2HG	LYS A	58	7.978	8.901	9.446	1.00	0.00
ATOM 876	1HD	LYS A	58	8.183	6.076	9.034	1.00	0.00
ATOM 877	2HD	LYS A	58	9.804	6.768	9.129	1.00	0.00
ATOM 878	1HE	LYS A	58	7.881	7.754	11.129	1.00	0.00
ATOM 879	2HE	LYS A	58	8.323	6.054	11.277	1.00	0.00
ATOM 880	1HZ	LYS A	58	10.416	6.561	11.879	1.00	0.00
ATOM 881	2HZ	LYS A	58	9.732	8.035	12.347	1.00	0.00
ATOM 882	3HZ	LYS A	58	10.522	7.905	10.857	1.00	0.00
ATOM 883	N	SER A	59	7.018	11.090	5.881	1.00	0.00
ATOM 884	CA	SER A	59	7.012	12.533	6.097	1.00	0.00
ATOM 885	C	SER A	59	6.177	13.240	5.034	1.00	0.00
ATOM 886	O	SER A	59	5.348	14.094	5.349	1.00	0.00
ATOM 887	CB	SER A	59	8.442	13.077	6.082	1.00	0.00
ATOM 888	OG	SER A	59	9.213	12.460	5.066	1.00	0.00
ATOM 889	H	SER A	59	7.008	10.744	4.964	1.00	0.00
ATOM 890	HA	SER A	59	6.575	12.721	7.065	1.00	0.00
ATOM 891	1HB	SER A	59	8.418	14.141	5.903	1.00	0.00

ATOM 892	2HB	SER A	59	8.907	12.883	7.038	1.00	0.00
ATOM 893	HG	SER A	59	9.066	12.914	4.233	1.00	0.00
ATOM 894	N	TYR A	60	6.400	12.878	3.776	1.00	0.00
ATOM 895	CA	TYR A	60	5.667	13.479	2.667	1.00	0.00
ATOM 896	C	TYR A	60	4.644	12.505	2.092	1.00	0.00
ATOM 897	O	TYR A	60	4.254	12.615	0.930	1.00	0.00
ATOM 898	CB	TYR A	60	6.635	13.922	1.568	1.00	0.00
ATOM 899	CG	TYR A	60	7.557	15.045	1.988	1.00	0.00
ATOM 900	CD1	TYR A	60	7.051	16.215	2.540	1.00	0.00
ATOM 901	CD2	TYR A	60	8.933	14.936	1.830	1.00	0.00
ATOM 902	CE1	TYR A	60	7.890	17.244	2.923	1.00	0.00
ATOM 903	CE2	TYR A	60	9.779	15.960	2.210	1.00	0.00
ATOM 904	CZ	TYR A	60	9.253	17.112	2.756	1.00	0.00
ATOM 905	OH	TYR A	60	10.091	18.134	3.137	1.00	0.00
ATOM 906	H	TYR A	60	7.074	12.192	3.587	1.00	0.00
ATOM 907	HA	TYR A	60	5.147	14.347	3.046	1.00	0.00
ATOM 908	1HB	TYR A	60	7.248	13.082	1.280	1.00	0.00
ATOM 909	2HB	TYR A	60	6.068	14.258	0.713	1.00	0.00
ATOM 910	HD1	TYR A	60	5.983	16.315	2.669	1.00	0.00
ATOM 911	HD2	TYR A	60	9.342	14.033	1.401	1.00	0.00
ATOM 912	HE1	TYR A	60	7.478	18.146	3.351	1.00	0.00
ATOM 913	HE2	TYR A	60	10.846	15.856	2.080	1.00	0.00
ATOM 914	HH	TYR A	60	10.725	18.304	2.437	1.00	0.00
ATOM 915	N	PHE A	61	4.212	11.548	2.910	1.00	0.00
ATOM 916	CA	PHE A	61	3.234	10.558	2.475	1.00	0.00
ATOM 917	C	PHE A	61	1.895	10.776	3.171	1.00	0.00
ATOM 918	O	PHE A	61	1.744	10.478	4.356	1.00	0.00



ATOM 919	CB	PHE A	61	3.746	9.145	2.759	1.00	0.00
ATOM 920	CG	PHE A	61	3.246	8.116	1.785	1.00	0.00
ATOM 921	CD1	PHE A	61	1.903	8.059	1.447	1.00	0.00
ATOM 922	CD2	PHE A	61	4.118	7.208	1.208	1.00	0.00
ATOM 923	CE1	PHE A	61	1.441	7.115	0.549	1.00	0.00
ATOM 924	CE2	PHE A	61	3.662	6.262	0.310	1.00	0.00
ATOM 925	CZ	PHE A	61	2.321	6.215	-0.020	1.00	0.00
ATOM 926	H	PHE A	61	4.558	11.509	3.826	1.00	0.00
ATOM 927	HA	PHE A	61	3.097	10.674	1.411	1.00	0.00
ATOM 928	1HB	PHE A	61	4.826	9.145	2.715	1.00	0.00
ATOM 929	2HB	PHE A	61	3.431	8.848	3.749	1.00	0.00
ATOM 930	HD1	PHE A	61	1.214	8.763	1.889	1.00	0.00
ATOM 931	HD2	PHE A	61	5.167	7.244	1.465	1.00	0.00
ATOM 932	HE1	PHE A	61	0.392	7.081	0.294	1.00	0.00
ATOM 933	HE2	PHE A	61	4.352	5.559	-0.133	1.00	0.00
ATOM 934	HZ	PHE A	61	1.961	5.476	-0.720	1.00	0.00
ATOM 935	N	SER A	62	0.926	11.299	2.427	1.00	0.00
ATOM 936	CA	SER A	62	-0.401	11.556	2.973	1.00	0.00
ATOM 937	C	SER A	62	-1.115	10.250	3.307	1.00	0.00
ATOM 938	O	SER A	62	-1.319	9.924	4.477	1.00	0.00
ATOM 939	CB	SER A	62	-1.235	12.368	1.980	1.00	0.00
ATOM 940	OG	SER A	62	-2.510	12.677	2.517	1.00	0.00
ATOM 941	H	SER A	62	1.107	11.515	1.488	1.00	0.00
ATOM 942	HA	SER A	62	-0.281	12.129	3.880	1.00	0.00
ATOM 943	1HB	SER A	62	-0.722	13.289	1.751	1.00	0.00
ATOM 944	2HB	SER A	62	-1.370	11.796	1.074	1.00	0.00
ATOM 945	HG	SER A	62	-2.948	11.868	2.792	1.00	0.00

ATOM 946	N	ASP	A	63	-1.490	9.504	2.272	1.00	0.00
ATOM 947	CA	ASP	A	63	-2.181	8.234	2.457	1.00	0.00
ATOM 948	C	ASP	A	63	-2.442	7.554	1.117	1.00	0.00
ATOM 949	O	ASP	A	63	-1.951	7.996	0.077	1.00	0.00
ATOM 950	CB	ASP	A	63	-3.501	8.448	3.200	1.00	0.00
ATOM 951	CG	ASP	A	63	-3.740	7.400	4.269	1.00	0.00
ATOM 952	OD1	ASP	A	63	-3.950	7.783	5.440	1.00	0.00
ATOM 953	OD2	ASP	A	63	-3.716	6.196	3.936	1.00	0.00
ATOM 954	H	ASP	A	63	-1.299	9.817	1.363	1.00	0.00
ATOM 955	HA	ASP	A	63	-1.544	7.595	3.051	1.00	0.00
ATOM 956	1HB	ASP	A	63	-3.488	9.419	3.672	1.00	0.00
ATOM 957	2HB	ASP	A	63	-4.317	8.407	2.493	1.00	0.00
ATOM 958	N	CYS	A	64	-3.218	6.475	1.148	1.00	0.00
ATOM 959	CA	CYS	A	64	-3.547	5.732	-0.062	1.00	0.00
ATOM 960	C	CYS	A	64	-5.031	5.860	-0.393	1.00	0.00
ATOM 961	O	CYS	A	64	-5.881	5.826	0.497	1.00	0.00
ATOM 962	CB	CYS	A	64	-3.172	4.257	0.103	1.00	0.00
ATOM 963	SG	CYS	A	64	-2.157	3.599	-1.240	1.00	0.00
ATOM 964	H	CYS	A	64	-3.579	6.171	2.008	1.00	0.00
ATOM 965	HA	CYS	A	64	-2.972	6.151	-0.874	1.00	0.00
ATOM 966	1HB	CYS	A	64	-2.618	4.135	1.021	1.00	0.00
ATOM 967	2HB	CYS	A	64	-4.075	3.666	0.154	1.00	0.00
ATOM 968	HG	CYS	A	64	-2.592	2.816	-1.585	1.00	0.00
ATOM 969	N	GLN	A	65	-5.335	6.007	-1.678	1.00	0.00
ATOM 970	CA	GLN	A	65	-6.717	6.140	-2.126	1.00	0.00
ATOM 971	C	GLN	A	65	-7.141	4.923	-2.944	1.00	0.00
ATOM 972	O	GLN	A	65	-6.951	4.883	-4.160	1.00	0.00

ATOM 973	CB	GLN A	65	-6.886	7.411	-2.959	1.00	0.00
ATOM 974	CG	GLN A	65	-8.329	7.701	-3.341	1.00	0.00
ATOM 975	CD	GLN A	65	-8.593	9.180	-3.541	1.00	0.00
ATOM 976	OE1	GLN A	65	-8.582	9.959	-2.589	1.00	0.00
ATOM 977	NE2	GLN A	65	-8.833	9.575	-4.787	1.00	0.00
ATOM 978	H	GLN A	65	-4.613	6.026	-2.341	1.00	0.00
ATOM 979	HA	GLN A	65	-7.344	6.206	-1.251	1.00	0.00
ATOM 980	1HB	GLN A	65	-6.511	8.251	-2.393	1.00	0.00
ATOM 981	2HB	GLN A	65	-6.308	7.315	-3.866	1.00	0.00
ATOM 982	1HG	GLN A	65	-8.554	7.182	-4.261	1.00	0.00
ATOM 983	2HG	GLN A	65	-8.975	7.337	-2.556	1.00	0.00
ATOM 984	1HE2	GLN A	65	-8.827	8.899	-5.496	1.00	0.00
ATOM 985	2HE2	GLN A	65	-9.008	10.526	-4.945	1.00	0.00
ATOM 986	N	VAL A	66	-7.715	3.935	-2.268	1.00	0.00
ATOM 987	CA	VAL A	66	-8.167	2.718	-2.931	1.00	0.00
ATOM 988	C	VAL A	66	-9.244	3.026	-3.967	1.00	0.00
ATOM 989	O	VAL A	66	-10.372	3.380	-3.618	1.00	0.00
ATOM 990	CB	VAL A	66	-8.712	1.694	-1.915	1.00	0.00
ATOM 991	CG1	VAL A	66	-9.908	2.264	-1.166	1.00	0.00
ATOM 992	CG2	VAL A	66	-9.078	0.389	-2.609	1.00	0.00
ATOM 993	H	VAL A	66	-7.839	4.024	-1.300	1.00	0.00
ATOM 994	HA	VAL A	66	-7.317	2.278	-3.432	1.00	0.00
ATOM 995	HB	VAL A	66	-7.934	1.485	-1.195	1.00	0.00
ATOM 996	1HG1	VAL A	66	-9.971	1.808	-0.189	1.00	0.00
ATOM 997	2HG1	VAL A	66	-10.812	2.055	-1.719	1.00	0.00
ATOM 998	3HG1	VAL A	66	-9.790	3.331	-1.059	1.00	0.00
ATOM 999	1HG2	VAL A	66	-10.008	0.014	-2.207	1.00	0.00

ATOM 1000	2HG2	VAL	A	66	-8.296	-0.337	-2.445	1.00	0.00
ATOM 1001	3HG2	VAL	A	66	-9.190	0.563	-3.669	1.00	0.00
ATOM 1002	N	LEU	A	67	-8.891	2.891	-5.240	1.00	0.00
ATOM 1003	CA	LEU	A	67	-9.827	3.156	-6.326	1.00	0.00
ATOM 1004	C	LEU	A	67	-10.875	2.051	-6.423	1.00	0.00
ATOM 1005	O	LEU	A	67	-12.069	2.299	-6.261	1.00	0.00
ATOM 1006	CB	LEU	A	67	-9.079	3.282	-7.655	1.00	0.00
ATOM 1007	CG	LEU	A	67	-7.843	4.182	-7.618	1.00	0.00
ATOM 1008	CD1	LEU	A	67	-6.868	3.793	-8.719	1.00	0.00
ATOM 1009	CD2	LEU	A	67	-8.244	5.643	-7.751	1.00	0.00
ATOM 1010	H	LEU	A	67	-7.978	2.606	-5.455	1.00	0.00
ATOM 1011	HA	LEU	A	67	-10.326	4.090	-6.113	1.00	0.00
ATOM 1012	1HB	LEU	A	67	-8.773	2.295	-7.966	1.00	0.00
ATOM 1013	2HB	LEU	A	67	-9.762	3.678	-8.391	1.00	0.00
ATOM 1014	HG	LEU	A	67	-7.341	4.056	-6.670	1.00	0.00
ATOM 1015	1HD1	LEU	A	67	-6.393	2.857	-8.466	1.00	0.00
ATOM 1016	2HD1	LEU	A	67	-6.117	4.562	-8.823	1.00	0.00
ATOM 1017	3HD1	LEU	A	67	-7.403	3.684	-9.652	1.00	0.00
ATOM 1018	1HD2	LEU	A	67	-9.268	5.767	-7.430	1.00	0.00
ATOM 1019	2HD2	LEU	A	67	-8.150	5.951	-8.782	1.00	0.00
ATOM 1020	3HD2	LEU	A	67	-7.598	6.251	-7.134	1.00	0.00
ATOM 1021	N	ALA	A	68	-10.418	0.832	-6.688	1.00	0.00
ATOM 1022	CA	ALA	A	68	-11.316	-0.311	-6.806	1.00	0.00
ATOM 1023	C	ALA	A	68	-10.533	-1.616	-6.913	1.00	0.00
ATOM 1024	O	ALA	A	68	-9.305	-1.609	-7.001	1.00	0.00
ATOM 1025	CB	ALA	A	68	-12.229	-0.141	-8.010	1.00	0.00
ATOM 1026	H	ALA	A	68	-9.455	0.697	-6.806	1.00	0.00

ATOM 1027	HA	ALA	A	68	-11.931	-0.344	-5.918	1.00	0.00
ATOM 1028	1HB	ALA	A	68	-12.527	0.894	-8.093	1.00	0.00
ATOM 1029	2HB	ALA	A	68	-13.107	-0.759	-7.887	1.00	0.00
ATOM 1030	3HB	ALA	A	68	-11.704	-0.437	-8.906	1.00	0.00
ATOM 1031	N	PHE	A	69	-11.252	-2.733	-6.905	1.00	0.00
ATOM 1032	CA	PHE	A	69	-10.625	-4.046	-7.001	1.00	0.00
ATOM 1033	C	PHE	A	69	-10.777	-4.619	-8.407	1.00	0.00
ATOM 1034	O	PHE	A	69	-11.743	-4.321	-9.108	1.00	0.00
ATOM 1035	CB	PHE	A	69	-11.238	-5.003	-5.978	1.00	0.00
ATOM 1036	CG	PHE	A	69	-11.047	-4.562	-4.555	1.00	0.00
ATOM 1037	CD1	PHE	A	69	-12.029	-3.834	-3.904	1.00	0.00
ATOM 1038	CD2	PHE	A	69	-9.885	-4.877	-3.869	1.00	0.00
ATOM 1039	CE1	PHE	A	69	-11.856	-3.427	-2.595	1.00	0.00
ATOM 1040	CE2	PHE	A	69	-9.706	-4.474	-2.559	1.00	0.00
ATOM 1041	CZ	PHE	A	69	-10.693	-3.747	-1.922	1.00	0.00
ATOM 1042	H	PHE	A	69	-12.227	-2.673	-6.833	1.00	0.00
ATOM 1043	HA	PHE	A	69	-9.574	-3.928	-6.786	1.00	0.00
ATOM 1044	1HB	PHE	A	69	-12.299	-5.084	-6.161	1.00	0.00
ATOM 1045	2HB	PHE	A	69	-10.784	-5.977	-6.090	1.00	0.00
ATOM 1046	HD1	PHE	A	69	-12.938	-3.583	-4.430	1.00	0.00
ATOM 1047	HD2	PHE	A	69	-9.113	-5.445	-4.366	1.00	0.00
ATOM 1048	HE1	PHE	A	69	-12.628	-2.858	-2.098	1.00	0.00
ATOM 1049	HE2	PHE	A	69	-8.796	-4.725	-2.036	1.00	0.00
ATOM 1050	HZ	PHE	A	69	-10.555	-3.430	-0.898	1.00	0.00
ATOM 1051	N	ARG	A	70	-9.816	-5.442	-8.811	1.00	0.00
ATOM 1052	CA	ARG	A	70	-9.842	-6.058	-10.133	1.00	0.00
ATOM 1053	C	ARG	A	70	-9.911	-7.578	-10.026	1.00	0.00

ATOM 1054	O	ARG	A	70	-9.606	-8.151	-8.980	1.00	0.00
ATOM 1055	CB	ARG	A	70	-8.603	-5.647	-10.933	1.00	0.00
ATOM 1056	CG	ARG	A	70	-8.313	-4.157	-10.883	1.00	0.00
ATOM 1057	CD	ARG	A	70	-9.125	-3.394	-11.918	1.00	0.00
ATOM 1058	NE	ARG	A	70	-10.496	-3.154	-11.469	1.00	0.00
ATOM 1059	CZ	ARG	A	70	-11.301	-2.238	-12.004	1.00	0.00
ATOM 1060	NH1	ARG	A	70	-10.877	-1.474	-13.003	1.00	0.00
ATOM 1061	NH2	ARG	A	70	-12.532	-2.084	-11.536	1.00	0.00
ATOM 1062	H	ARG	A	70	-9.070	-5.641	-8.207	1.00	0.00
ATOM 1063	HA	ARG	A	70	-10.724	-5.705	-10.646	1.00	0.00
ATOM 1064	1HB	ARG	A	70	-7.745	-6.174	-10.542	1.00	0.00
ATOM 1065	2HB	ARG	A	70	-8.747	-5.930	-11.966	1.00	0.00
ATOM 1066	1HG	ARG	A	70	-8.561	-3.785	-9.900	1.00	0.00
ATOM 1067	2HG	ARG	A	70	-7.262	-3.998	-11.076	1.00	0.00
ATOM 1068	1HD	ARG	A	70	-8.647	-2.445	-12.105	1.00	0.00
ATOM 1069	2HD	ARG	A	70	-9.152	-3.971	-12.831	1.00	0.00
ATOM 1070	HE	ARG	A	70	-10.833	-3.703	-10.732	1.00	0.00
ATOM 1071	1HH1	ARG	A	70	-9.950	-1.584	-13.361	1.00	0.00
ATOM 1072	2HH1	ARG	A	70	-11.487	-0.788	-13.400	1.00	0.00
ATOM 1073	1HH2	ARG	A	70	-12.855	-2.657	-10.782	1.00	0.00
ATOM 1074	2HH2	ARG	A	70	-13.136	-1.396	-11.936	1.00	0.00
ATOM 1075	N	SER	A	71	-10.314	-8.225	-11.115	1.00	0.00
ATOM 1076	CA	SER	A	71	-10.425	-9.679	-11.143	1.00	0.00
ATOM 1077	C	SER	A	71	-9.427	-10.281	-12.128	1.00	0.00
ATOM 1078	O	SER	A	71	-9.648	-10.267	-13.338	1.00	0.00
ATOM 1079	CB	SER	A	71	-11.847	-10.096	-11.521	1.00	0.00
ATOM 1080	OG	SER	A	71	-12.025	-11.494	-11.372	1.00	0.00

ATOM 1081	H	SER A	71	-10.544	-7.712	-11.918	1.00	0.00
ATOM 1082	HA	SER A	71	-10.202	-10.048	-10.153	1.00	0.00
ATOM 1083	1HB	SER A	71	-12.552	-9.586	-10.882	1.00	0.00
ATOM 1084	2HB	SER A	71	-12.035	-9.829	-12.551	1.00	0.00
ATOM 1085	HG	SER A	71	-12.571	-11.667	-10.601	1.00	0.00
ATOM 1086	N	VAL A	72	-8.328	-10.810	-11.598	1.00	0.00
ATOM 1087	CA	VAL A	72	-7.297	-11.418	-12.431	1.00	0.00
ATOM 1088	C	VAL A	72	-7.858	-12.582	-13.240	1.00	0.00
ATOM 1089	O	VAL A	72	-7.393	-12.866	-14.343	1.00	0.00
ATOM 1090	CB	VAL A	72	-6.114	-11.922	-11.582	1.00	0.00
ATOM 1091	CG1	VAL A	72	-5.321	-10.751	-11.021	1.00	0.00
ATOM 1092	CG2	VAL A	72	-6.606	-12.826	-10.463	1.00	0.00
ATOM 1093	H	VAL A	72	-8.209	-10.792	-10.626	1.00	0.00
ATOM 1094	HA	VAL A	72	-6.930	-10.664	-13.111	1.00	0.00
ATOM 1095	HB	VAL A	72	-5.460	-12.497	-12.219	1.00	0.00
ATOM 1096	1HG1	VAL A	72	-4.726	-11.088	-10.184	1.00	0.00
ATOM 1097	2HG1	VAL A	72	-6.001	-9.981	-10.690	1.00	0.00
ATOM 1098	3HG1	VAL A	72	-4.673	-10.355	-11.788	1.00	0.00
ATOM 1099	1HG2	VAL A	72	-7.473	-13.378	-10.800	1.00	0.00
ATOM 1100	2HG2	VAL A	72	-6.872	-12.227	-9.605	1.00	0.00
ATOM 1101	3HG2	VAL A	72	-5.824	-13.519	-10.189	1.00	0.00
ATOM 1102	N	SER A	73	-8.862	-13.254	-12.683	1.00	0.00
ATOM 1103	CA	SER A	73	-9.487	-14.389	-13.354	1.00	0.00
ATOM 1104	C	SER A	73	-8.468	-15.493	-13.618	1.00	0.00
ATOM 1105	O	SER A	73	-8.514	-16.160	-14.651	1.00	0.00
ATOM 1106	CB	SER A	73	-10.126	-13.941	-14.670	1.00	0.00
ATOM 1107	OG	SER A	73	-11.234	-14.758	-15.004	1.00	0.00

ATOM 1108	H	SER A	73	-9.189	-12.981	-11.801	1.00	0.00
ATOM 1109	HA	SER A	73	-10.258	-14.774	-12.704	1.00	0.00
ATOM 1110	1HB	SER A	73	-10.463	-12.920	-14.575	1.00	0.00
ATOM 1111	2HB	SER A	73	-9.394	-14.006	-15.463	1.00	0.00
ATOM 1112	N	ASN A	74	-7.548	-15.680	-12.677	1.00	0.00
ATOM 1113	CA	ASN A	74	-6.518	-16.703	-12.808	1.00	0.00
ATOM 1114	C	ASN A	74	-6.932	-17.987	-12.096	1.00	0.00
ATOM 1115	O	ASN A	74	-7.289	-18.976	-12.735	1.00	0.00
ATOM 1116	CB	ASN A	74	-5.189	-16.194	-12.243	1.00	0.00
ATOM 1117	CG	ASN A	74	-4.051	-16.324	-13.237	1.00	0.00
ATOM 1118	OD1	ASN A	74	-4.092	-15.748	-14.324	1.00	0.00
ATOM 1119	ND2	ASN A	74	-3.027	-17.085	-12.867	1.00	0.00
ATOM 1120	H	ASN A	74	-7.563	-15.116	-11.875	1.00	0.00
ATOM 1121	HA	ASN A	74	-6.394	-16.914	-13.860	1.00	0.00
ATOM 1122	1HB	ASN A	74	-5.293	-15.152	-11.980	1.00	0.00
ATOM 1123	2HB	ASN A	74	-4.938	-16.761	-11.359	1.00	0.00
ATOM 1124	1HD2	ASN A	74	-3.062	-17.512	-11.986	1.00	0.00
ATOM 1125	2HD2	ASN A	74	-2.278	-17.186	-13.490	1.00	0.00
ATOM 1126	N	ASN A	75	-6.883	-17.964	-10.767	1.00	0.00
ATOM 1127	CA	ASN A	75	-7.254	-19.128	-9.968	1.00	0.00
ATOM 1128	C	ASN A	75	-8.508	-18.855	-9.139	1.00	0.00
ATOM 1129	O	ASN A	75	-8.819	-19.598	-8.209	1.00	0.00
ATOM 1130	CB	ASN A	75	-6.100	-19.526	-9.047	1.00	0.00
ATOM 1131	CG	ASN A	75	-6.102	-21.008	-8.723	1.00	0.00
ATOM 1132	OD1	ASN A	75	-5.977	-21.849	-9.611	1.00	0.00
ATOM 1133	ND2	ASN A	75	-6.246	-21.333	-7.443	1.00	0.00
ATOM 1134	H	ASN A	75	-6.591	-17.147	-10.313	1.00	0.00



ATOM	1135	HA	ASN	A	75	-7.458	-19.943	-10.646	1.00	0.00
ATOM	1136	1HB	ASN	A	75	-5.164	-19.285	-9.527	1.00	0.00
ATOM	1137	2HB	ASN	A	75	-6.179	-18.974	-8.123	1.00	0.00
ATOM	1138	1HD2	ASN	A	75	-6.341	-20.609	-6.790	1.00	0.00
ATOM	1139	2HD2	ASN	A	75	-6.251	-22.283	-7.205	1.00	0.00
ATOM	1140	N	ASN	A	76	-9.226	-17.786	-9.481	1.00	0.00
ATOM	1141	CA	ASN	A	76	-10.445	-17.422	-8.765	1.00	0.00
ATOM	1142	C	ASN	A	76	-10.190	-17.311	-7.264	1.00	0.00
ATOM	1143	O	ASN	A	76	-11.086	-17.549	-6.454	1.00	0.00
ATOM	1144	CB	ASN	A	76	-11.545	-18.452	-9.032	1.00	0.00
ATOM	1145	CG	ASN	A	76	-12.266	-18.201	-10.341	1.00	0.00
ATOM	1146	OD1	ASN	A	76	-12.159	-18.988	-11.283	1.00	0.00
ATOM	1147	ND2	ASN	A	76	-13.006	-17.100	-10.409	1.00	0.00
ATOM	1148	H	ASN	A	76	-8.932	-17.230	-10.231	1.00	0.00
ATOM	1149	HA	ASN	A	76	-10.770	-16.460	-9.133	1.00	0.00
ATOM	1150	1HB	ASN	A	76	-11.105	-19.438	-9.068	1.00	0.00
ATOM	1151	2HB	ASN	A	76	-12.268	-18.414	-8.231	1.00	0.00
ATOM	1152	1HD2	ASN	A	76	-13.045	-16.520	-9.621	1.00	0.00
ATOM	1153	2HD2	ASN	A	76	-13.483	-16.914	-11.244	1.00	0.00
ATOM	1154	N	ASN	A	77	-8.964	-16.950	-6.901	1.00	0.00
ATOM	1155	CA	ASN	A	77	-8.594	-16.809	-5.496	1.00	0.00
ATOM	1156	C	ASN	A	77	-7.659	-15.620	-5.292	1.00	0.00
ATOM	1157	O	ASN	A	77	-6.894	-15.582	-4.328	1.00	0.00
ATOM	1158	CB	ASN	A	77	-7.928	-18.091	-4.993	1.00	0.00
ATOM	1159	CG	ASN	A	77	-8.109	-18.288	-3.501	1.00	0.00
ATOM	1160	OD1	ASN	A	77	-7.136	-18.386	-2.753	1.00	0.00
ATOM	1161	ND2	ASN	A	77	-9.360	-18.350	-3.059	1.00	0.00

ATOM 1162	H	ASN A	77	-8.292	-16.773	-7.592	1.00	0.00
ATOM 1163	HA	ASN A	77	-9.500	-16.640	-4.932	1.00	0.00
ATOM 1164	1HB	ASN A	77	-8.360	-18.938	-5.504	1.00	0.00
ATOM 1165	2HB	ASN A	77	-6.870	-18.047	-5.207	1.00	0.00
ATOM 1166	1HD2	ASN A	77	-10.086	-18.264	-3.712	1.00	0.00
ATOM 1167	2HD2	ASN A	77	-9.506	-18.476	-2.099	1.00	0.00
ATOM 1168	N	HIS A	78	-7.726	-14.652	-6.201	1.00	0.00
ATOM 1169	CA	HIS A	78	-6.884	-13.464	-6.114	1.00	0.00
ATOM 1170	C	HIS A	78	-7.695	-12.204	-6.401	1.00	0.00
ATOM 1171	O	HIS A	78	-8.804	-12.275	-6.928	1.00	0.00
ATOM 1172	CB	HIS A	78	-5.716	-13.567	-7.097	1.00	0.00
ATOM 1173	CG	HIS A	78	-5.040	-14.903	-7.089	1.00	0.00
ATOM 1174	ND1	HIS A	78	-4.684	-15.573	-8.242	1.00	0.00
ATOM 1175	CD2	HIS A	78	-4.651	-15.695	-6.061	1.00	0.00
ATOM 1176	CE1	HIS A	78	-4.107	-16.718	-7.922	1.00	0.00
ATOM 1177	NE2	HIS A	78	-4.075	-16.815	-6.606	1.00	0.00
ATOM 1178	H	HIS A	78	-8.356	-14.737	-6.945	1.00	0.00
ATOM 1179	HA	HIS A	78	-6.494	-13.407	-5.109	1.00	0.00
ATOM 1180	1HB	HIS A	78	-6.080	-13.386	-8.097	1.00	0.00
ATOM 1181	2HB	HIS A	78	-4.979	-12.818	-6.848	1.00	0.00
ATOM 1182	HD1	HIS A	78	-4.833	-15.256	-9.156	1.00	0.00
ATOM 1183	HD2	HIS A	78	-4.772	-15.484	-5.008	1.00	0.00
ATOM 1184	HE1	HIS A	78	-3.725	-17.449	-8.619	1.00	0.00
ATOM 1185	HE2	HIS A	78	-3.766	-17.598	-6.105	1.00	0.00
ATOM 1186	N	THR A	79	-7.134	-11.052	-6.047	1.00	0.00
ATOM 1187	CA	THR A	79	-7.808	-9.776	-6.267	1.00	0.00
ATOM 1188	C	THR A	79	-6.800	-8.672	-6.569	1.00	0.00

ATOM	1189	O	THR	A	79	-5.828	-8.489	-5.838	1.00	0.00
ATOM	1190	CB	THR	A	79	-8.641	-9.400	-5.041	1.00	0.00
ATOM	1191	OG1	THR	A	79	-9.542	-10.441	-4.708	1.00	0.00
ATOM	1192	CG2	THR	A	79	-9.449	-8.135	-5.234	1.00	0.00
ATOM	1193	H	THR	A	79	-6.247	-11.058	-5.630	1.00	0.00
ATOM	1194	HA	THR	A	79	-8.465	-9.890	-7.116	1.00	0.00
ATOM	1195	HB	THR	A	79	-7.977	-9.244	-4.202	1.00	0.00
ATOM	1196	HG1	THR	A	79	-10.110	-10.626	-5.460	1.00	0.00
ATOM	1197	1HG2	THR	A	79	-8.811	-7.275	-5.094	1.00	0.00
ATOM	1198	2HG2	THR	A	79	-10.253	-8.108	-4.512	1.00	0.00
ATOM	1199	3HG2	THR	A	79	-9.861	-8.119	-6.232	1.00	0.00
ATOM	1200	N	GLY	A	80	-7.043	-7.938	-7.650	1.00	0.00
ATOM	1201	CA	GLY	A	80	-6.149	-6.858	-8.029	1.00	0.00
ATOM	1202	C	GLY	A	80	-6.475	-5.560	-7.320	1.00	0.00
ATOM	1203	O	GLY	A	80	-7.554	-4.997	-7.506	1.00	0.00
ATOM	1204	H	GLY	A	80	-7.835	-8.129	-8.194	1.00	0.00
ATOM	1205	1HA	GLY	A	80	-5.136	-7.144	-7.788	1.00	0.00
ATOM	1206	2HA	GLY	A	80	-6.223	-6.702	-9.095	1.00	0.00
ATOM	1207	N	VAL	A	81	-5.540	-5.081	-6.504	1.00	0.00
ATOM	1208	CA	VAL	A	81	-5.735	-3.841	-5.764	1.00	0.00
ATOM	1209	C	VAL	A	81	-5.384	-2.629	-6.619	1.00	0.00
ATOM	1210	O	VAL	A	81	-4.292	-2.547	-7.180	1.00	0.00
ATOM	1211	CB	VAL	A	81	-4.884	-3.811	-4.478	1.00	0.00
ATOM	1212	CG1	VAL	A	81	-5.203	-2.574	-3.652	1.00	0.00
ATOM	1213	CG2	VAL	A	81	-5.105	-5.076	-3.664	1.00	0.00
ATOM	1214	H	VAL	A	81	-4.700	-5.575	-6.397	1.00	0.00
ATOM	1215	HA	VAL	A	81	-6.777	-3.781	-5.483	1.00	0.00

ATOM 1216	HB	VAL	A	81	-3.843	-3.768	-4.762	1.00	0.00
ATOM 1217	1HG1	VAL	A	81	-4.606	-1.743	-4.000	1.00	0.00
ATOM 1218	2HG1	VAL	A	81	-4.979	-2.768	-2.614	1.00	0.00
ATOM 1219	3HG1	VAL	A	81	-6.251	-2.331	-3.754	1.00	0.00
ATOM 1220	1HG2	VAL	A	81	-4.365	-5.132	-2.879	1.00	0.00
ATOM 1221	2HG2	VAL	A	81	-5.014	-5.939	-4.307	1.00	0.00
ATOM 1222	3HG2	VAL	A	81	-6.092	-5.056	-3.226	1.00	0.00
ATOM 1223	N	ASP	A	82	-6.316	-1.686	-6.710	1.00	0.00
ATOM 1224	CA	ASP	A	82	-6.108	-0.473	-7.491	1.00	0.00
ATOM 1225	C	ASP	A	82	-6.113	0.751	-6.584	1.00	0.00
ATOM 1226	O	ASP	A	82	-7.116	1.458	-6.481	1.00	0.00
ATOM 1227	CB	ASP	A	82	-7.191	-0.337	-8.563	1.00	0.00
ATOM 1228	CG	ASP	A	82	-6.771	0.580	-9.695	1.00	0.00
ATOM 1229	OD1	ASP	A	82	-7.663	1.150	-10.359	1.00	0.00
ATOM 1230	OD2	ASP	A	82	-5.552	0.730	-9.916	1.00	0.00
ATOM 1231	H	ASP	A	82	-7.166	-1.809	-6.237	1.00	0.00
ATOM 1232	HA	ASP	A	82	-5.144	-0.549	-7.971	1.00	0.00
ATOM 1233	1HB	ASP	A	82	-7.405	-1.311	-8.975	1.00	0.00
ATOM 1234	2HB	ASP	A	82	-8.087	0.064	-8.112	1.00	0.00
ATOM 1235	N	SER	A	83	-4.987	0.992	-5.920	1.00	0.00
ATOM 1236	CA	SER	A	83	-4.863	2.126	-5.011	1.00	0.00
ATOM 1237	C	SER	A	83	-4.053	3.253	-5.644	1.00	0.00
ATOM 1238	O	SER	A	83	-3.482	3.092	-6.722	1.00	0.00
ATOM 1239	CB	SER	A	83	-4.208	1.681	-3.702	1.00	0.00
ATOM 1240	OG	SER	A	83	-3.148	0.774	-3.944	1.00	0.00
ATOM 1241	H	SER	A	83	-4.223	0.390	-6.038	1.00	0.00
ATOM 1242	HA	SER	A	83	-5.857	2.490	-4.799	1.00	0.00

ATOM	1243	1HB	SER	A	83	-3.817	2.544	-3.186	1.00	0.00
ATOM	1244	2HB	SER	A	83	-4.946	1.196	-3.080	1.00	0.00
ATOM	1245	HG	SER	A	83	-3.403	-0.104	-3.652	1.00	0.00
ATOM	1246	N	LEU	A	84	-4.010	4.393	-4.962	1.00	0.00
ATOM	1247	CA	LEU	A	84	-3.272	5.552	-5.452	1.00	0.00
ATOM	1248	C	LEU	A	84	-2.328	6.087	-4.379	1.00	0.00
ATOM	1249	O	LEU	A	84	-2.767	6.675	-3.391	1.00	0.00
ATOM	1250	CB	LEU	A	84	-4.243	6.652	-5.889	1.00	0.00
ATOM	1251	CG	LEU	A	84	-3.623	7.780	-6.716	1.00	0.00
ATOM	1252	CD1	LEU	A	84	-2.710	8.637	-5.854	1.00	0.00
ATOM	1253	CD2	LEU	A	84	-2.862	7.214	-7.905	1.00	0.00
ATOM	1254	H	LEU	A	84	-4.487	4.458	-4.108	1.00	0.00
ATOM	1255	HA	LEU	A	84	-2.689	5.238	-6.305	1.00	0.00
ATOM	1256	1HB	LEU	A	84	-5.029	6.195	-6.474	1.00	0.00
ATOM	1257	2HB	LEU	A	84	-4.684	7.086	-5.004	1.00	0.00
ATOM	1258	HG	LEU	A	84	-4.413	8.414	-7.095	1.00	0.00
ATOM	1259	1HD1	LEU	A	84	-2.983	8.521	-4.816	1.00	0.00
ATOM	1260	2HD1	LEU	A	84	-2.811	9.673	-6.139	1.00	0.00
ATOM	1261	3HD1	LEU	A	84	-1.685	8.324	-5.994	1.00	0.00
ATOM	1262	1HD2	LEU	A	84	-2.517	8.024	-8.532	1.00	0.00
ATOM	1263	2HD2	LEU	A	84	-3.514	6.569	-8.477	1.00	0.00
ATOM	1264	3HD2	LEU	A	84	-2.014	6.647	-7.552	1.00	0.00
ATOM	1265	N	CYS	A	85	-1.031	5.881	-4.582	1.00	0.00
ATOM	1266	CA	CYS	A	85	-0.027	6.346	-3.632	1.00	0.00
ATOM	1267	C	CYS	A	85	0.009	7.871	-3.586	1.00	0.00
ATOM	1268	O	CYS	A	85	0.874	8.500	-4.195	1.00	0.00
ATOM	1269	CB	CYS	A	85	1.352	5.798	-4.007	1.00	0.00

ATOM	1270	SG	CYS	A	85	1.724	4.184	-3.282	1.00	0.00
ATOM	1271	H	CYS	A	85	-0.742	5.408	-5.389	1.00	0.00
ATOM	1272	HA	CYS	A	85	-0.299	5.975	-2.655	1.00	0.00
ATOM	1273	1HB	CYS	A	85	1.411	5.696	-5.080	1.00	0.00
ATOM	1274	2HB	CYS	A	85	2.111	6.491	-3.673	1.00	0.00
ATOM	1275	HG	CYS	A	85	1.033	3.977	-2.649	1.00	0.00
ATOM	1276	N	ASN	A	86	-0.940	8.458	-2.862	1.00	0.00
ATOM	1277	CA	ASN	A	86	-1.020	9.910	-2.739	1.00	0.00
ATOM	1278	C	ASN	A	86	0.087	10.444	-1.837	1.00	0.00
ATOM	1279	O	ASN	A	86	0.482	9.793	-0.870	1.00	0.00
ATOM	1280	CB	ASN	A	86	-2.386	10.320	-2.185	1.00	0.00
ATOM	1281	CG	ASN	A	86	-3.441	10.429	-3.268	1.00	0.00
ATOM	1282	OD1	ASN	A	86	-3.325	11.240	-4.186	1.00	0.00
ATOM	1283	ND2	ASN	A	86	-4.481	9.609	-3.164	1.00	0.00
ATOM	1284	H	ASN	A	86	-1.603	7.903	-2.402	1.00	0.00
ATOM	1285	HA	ASN	A	86	-0.901	10.333	-3.725	1.00	0.00
ATOM	1286	1HB	ASN	A	86	-2.711	9.585	-1.464	1.00	0.00
ATOM	1287	2HB	ASN	A	86	-2.295	11.280	-1.698	1.00	0.00
ATOM	1288	1HD2	ASN	A	86	-4.508	8.989	-2.406	1.00	0.00
ATOM	1289	2HD2	ASN	A	86	-5.179	9.658	-3.851	1.00	0.00
ATOM	1290	N	PHE	A	87	0.586	11.633	-2.161	1.00	0.00
ATOM	1291	CA	PHE	A	87	1.649	12.255	-1.380	1.00	0.00
ATOM	1292	C	PHE	A	87	1.334	13.722	-1.101	1.00	0.00
ATOM	1293	O	PHE	A	87	0.541	14.342	-1.810	1.00	0.00
ATOM	1294	CB	PHE	A	87	2.984	12.137	-2.116	1.00	0.00
ATOM	1295	CG	PHE	A	87	3.699	10.844	-1.853	1.00	0.00
ATOM	1296	CD1	PHE	A	87	3.163	9.641	-2.284	1.00	0.00

ATOM 1297	CD2	PHE A	87	4.907	10.829	-1.174	1.00	0.00
ATOM 1298	CE1	PHE A	87	3.817	8.448	-2.042	1.00	0.00
ATOM 1299	CE2	PHE A	87	5.566	9.640	-0.930	1.00	0.00
ATOM 1300	CZ	PHE A	87	5.020	8.448	-1.363	1.00	0.00
ATOM 1301	H	PHE A	87	0.230	12.103	-2.943	1.00	0.00
ATOM 1302	HA	PHE A	87	1.720	11.729	-0.440	1.00	0.00
ATOM 1303	1HB	PHE A	87	2.809	12.211	-3.179	1.00	0.00
ATOM 1304	2HB	PHE A	87	3.630	12.946	-1.806	1.00	0.00
ATOM 1305	HD1	PHE A	87	2.223	9.640	-2.816	1.00	0.00
ATOM 1306	HD2	PHE A	87	5.334	11.762	-0.834	1.00	0.00
ATOM 1307	HE1	PHE A	87	3.387	7.518	-2.383	1.00	0.00
ATOM 1308	HE2	PHE A	87	6.507	9.643	-0.398	1.00	0.00
ATOM 1309	HZ	PHE A	87	5.532	7.517	-1.173	1.00	0.00
ATOM 1310	N	SER A	88	1.962	14.269	-0.065	1.00	0.00
ATOM 1311	CA	SER A	88	1.749	15.663	0.307	1.00	0.00
ATOM 1312	C	SER A	88	2.423	16.603	-0.690	1.00	0.00
ATOM 1313	O	SER A	88	3.477	16.283	-1.240	1.00	0.00
ATOM 1314	CB	SER A	88	2.286	15.924	1.716	1.00	0.00
ATOM 1315	OG	SER A	88	2.417	14.716	2.445	1.00	0.00
ATOM 1316	H	SER A	88	2.583	13.724	0.461	1.00	0.00
ATOM 1317	HA	SER A	88	0.686	15.846	0.298	1.00	0.00
ATOM 1318	1HB	SER A	88	3.254	16.396	1.648	1.00	0.00
ATOM 1319	2HB	SER A	88	1.605	16.576	2.243	1.00	0.00
ATOM 1320	HG	SER A	88	1.557	14.297	2.528	1.00	0.00
ATOM 1321	N	PRO A	89	1.823	17.781	-0.939	1.00	0.00
ATOM 1322	CA	PRO A	89	2.376	18.767	-1.876	1.00	0.00
ATOM 1323	C	PRO A	89	3.748	19.272	-1.442	1.00	0.00

ATOM 1324	O	PRO A	89	4.549	19.705	-2.270	1.00	0.00
ATOM 1325	CB	PRO A	89	1.358	19.912	-1.854	1.00	0.00
ATOM 1326	CG	PRO A	89	0.116	19.326	-1.272	1.00	0.00
ATOM 1327	CD	PRO A	89	0.566	18.249	-0.331	1.00	0.00
ATOM 1328	HA	PRO A	89	2.444	18.366	-2.873	1.00	0.00
ATOM 1329	1HB	PRO A	89	1.737	20.716	-1.247	1.00	0.00
ATOM 1330	2HB	PRO A	89	1.191	20.265	-2.861	1.00	0.00
ATOM 1331	1HG	PRO A	89	-0.431	20.087	-0.736	1.00	0.00
ATOM 1332	2HG	PRO A	89	-0.495	18.906	-2.057	1.00	0.00
ATOM 1333	1HD	PRO A	89	0.740	18.655	0.655	1.00	0.00
ATOM 1334	2HD	PRO A	89	-0.162	17.453	-0.291	1.00	0.00
ATOM 1335	N	LEU A	90	4.011	19.217	-0.140	1.00	0.00
ATOM 1336	CA	LEU A	90	5.286	19.671	0.406	1.00	0.00
ATOM 1337	C	LEU A	90	6.461	18.998	-0.301	1.00	0.00
ATOM 1338	O	LEU A	90	7.562	19.547	-0.350	1.00	0.00
ATOM 1339	CB	LEU A	90	5.350	19.385	1.907	1.00	0.00
ATOM 1340	CG	LEU A	90	4.600	20.384	2.790	1.00	0.00
ATOM 1341	CD1	LEU A	90	3.102	20.124	2.735	1.00	0.00
ATOM 1342	CD2	LEU A	90	5.104	20.311	4.223	1.00	0.00
ATOM 1343	H	LEU A	90	3.330	18.862	0.469	1.00	0.00
ATOM 1344	HA	LEU A	90	5.351	20.737	0.249	1.00	0.00
ATOM 1345	1HB	LEU A	90	4.940	18.401	2.083	1.00	0.00
ATOM 1346	2HB	LEU A	90	6.388	19.383	2.207	1.00	0.00
ATOM 1347	HG	LEU A	90	4.778	21.384	2.422	1.00	0.00
ATOM 1348	1HD1	LEU A	90	2.905	19.098	3.007	1.00	0.00
ATOM 1349	2HD1	LEU A	90	2.741	20.308	1.734	1.00	0.00
ATOM 1350	3HD1	LEU A	90	2.597	20.783	3.427	1.00	0.00



ATOM	1351	1HD2	LEU	A	90	4.287	20.507	4.902	1.00	0.00
ATOM	1352	2HD2	LEU	A	90	5.879	21.048	4.370	1.00	0.00
ATOM	1353	3HD2	LEU	A	90	5.502	19.326	4.415	1.00	0.00
ATOM	1354	N	ALA	A	91	6.220	17.810	-0.847	1.00	0.00
ATOM	1355	CA	ALA	A	91	7.262	17.070	-1.549	1.00	0.00
ATOM	1356	C	ALA	A	91	7.360	17.505	-3.006	1.00	0.00
ATOM	1357	O	ALA	A	91	6.430	18.101	-3.551	1.00	0.00
ATOM	1358	CB	ALA	A	91	6.996	15.574	-1.460	1.00	0.00
ATOM	1359	H	ALA	A	91	5.323	17.423	-0.777	1.00	0.00
ATOM	1360	HA	ALA	A	91	8.203	17.273	-1.059	1.00	0.00
ATOM	1361	1HB	ALA	A	91	5.940	15.405	-1.305	1.00	0.00
ATOM	1362	2HB	ALA	A	91	7.553	15.159	-0.633	1.00	0.00
ATOM	1363	3HB	ALA	A	91	7.307	15.098	-2.378	1.00	0.00
ATOM	1364	N	ARG	A	92	8.492	17.203	-3.634	1.00	0.00
ATOM	1365	CA	ARG	A	92	8.713	17.562	-5.029	1.00	0.00
ATOM	1366	C	ARG	A	92	9.891	16.788	-5.611	1.00	0.00
ATOM	1367	O	ARG	A	92	10.605	17.285	-6.481	1.00	0.00
ATOM	1368	CB	ARG	A	92	8.963	19.067	-5.157	1.00	0.00
ATOM	1369	CG	ARG	A	92	8.795	19.593	-6.573	1.00	0.00
ATOM	1370	CD	ARG	A	92	8.693	21.109	-6.595	1.00	0.00
ATOM	1371	NE	ARG	A	92	7.308	21.566	-6.511	1.00	0.00
ATOM	1372	CZ	ARG	A	92	6.955	22.806	-6.178	1.00	0.00
ATOM	1373	NH1	ARG	A	92	7.881	23.715	-5.898	1.00	0.00
ATOM	1374	NH2	ARG	A	92	5.672	23.138	-6.126	1.00	0.00
ATOM	1375	H	ARG	A	92	9.196	16.727	-3.146	1.00	0.00
ATOM	1376	HA	ARG	A	92	7.821	17.307	-5.583	1.00	0.00
ATOM	1377	1HB	ARG	A	92	8.270	19.590	-4.516	1.00	0.00

ATOM 1378	2HB	ARG	A	92	9.971	19.280	-4.835	1.00	0.00
ATOM 1379	1HG	ARG	A	92	9.646	19.290	-7.163	1.00	0.00
ATOM 1380	2HG	ARG	A	92	7.893	19.174	-6.996	1.00	0.00
ATOM 1381	1HD	ARG	A	92	9.244	21.507	-5.756	1.00	0.00
ATOM 1382	2HD	ARG	A	92	9.127	21.473	-7.515	1.00	0.00
ATOM 1383	HE	ARG	A	92	6.604	20.916	-6.713	1.00	0.00
ATOM 1384	1HH1	ARG	A	92	8.850	23.470	-5.935	1.00	0.00
ATOM 1385	2HH1	ARG	A	92	7.610	24.643	-5.649	1.00	0.00
ATOM 1386	1HH2	ARG	A	92	4.971	22.458	-6.337	1.00	0.00
ATOM 1387	2HH2	ARG	A	92	5.407	24.070	-5.877	1.00	0.00
ATOM 1388	N	ARG	A	93	10.088	15.567	-5.123	1.00	0.00
ATOM 1389	CA	ARG	A	93	11.180	14.722	-5.594	1.00	0.00
ATOM 1390	C	ARG	A	93	10.879	13.250	-5.331	1.00	0.00
ATOM 1391	O	ARG	A	93	11.789	12.450	-5.113	1.00	0.00
ATOM 1392	CB	ARG	A	93	12.489	15.120	-4.910	1.00	0.00
ATOM 1393	CG	ARG	A	93	13.655	15.277	-5.874	1.00	0.00
ATOM 1394	CD	ARG	A	93	14.243	13.929	-6.264	1.00	0.00
ATOM 1395	NE	ARG	A	93	13.909	13.564	-7.639	1.00	0.00
ATOM 1396	CZ	ARG	A	93	13.992	12.325	-8.118	1.00	0.00
ATOM 1397	NH1	ARG	A	93	14.397	11.330	-7.338	1.00	0.00
ATOM 1398	NH2	ARG	A	93	13.669	12.080	-9.381	1.00	0.00
ATOM 1399	H	ARG	A	93	9.484	15.226	-4.430	1.00	0.00
ATOM 1400	HA	ARG	A	93	11.279	14.873	-6.658	1.00	0.00
ATOM 1401	1HB	ARG	A	93	12.344	16.060	-4.400	1.00	0.00
ATOM 1402	2HB	ARG	A	93	12.750	14.364	-4.184	1.00	0.00
ATOM 1403	1HG	ARG	A	93	13.309	15.778	-6.764	1.00	0.00
ATOM 1404	2HG	ARG	A	93	14.423	15.870	-5.400	1.00	0.00

ATOM	1405	1HD	ARG	A	93	15.318	13.978	-6.166	1.00	0.00
ATOM	1406	2HD	ARG	A	93	13.856	13.173	-5.596	1.00	0.00
ATOM	1407	HE	ARG	A	93	13.608	14.280	-8.237	1.00	0.00
ATOM	1408	1HH1	ARG	A	93	14.641	11.508	-6.385	1.00	0.00
ATOM	1409	2HH1	ARG	A	93	14.456	10.402	-7.705	1.00	0.00
ATOM	1410	1HH2	ARG	A	93	13.364	12.827	-9.972	1.00	0.00
ATOM	1411	2HH2	ARG	A	93	13.732	11.150	-9.741	1.00	0.00
ATOM	1412	N	VAL	A	94	9.597	12.898	-5.353	1.00	0.00
ATOM	1413	CA	VAL	A	94	9.179	11.522	-5.118	1.00	0.00
ATOM	1414	C	VAL	A	94	8.997	10.771	-6.433	1.00	0.00
ATOM	1415	O	VAL	A	94	8.439	11.305	-7.390	1.00	0.00
ATOM	1416	CB	VAL	A	94	7.862	11.464	-4.320	1.00	0.00
ATOM	1417	CG1	VAL	A	94	7.551	10.034	-3.902	1.00	0.00
ATOM	1418	CG2	VAL	A	94	7.932	12.378	-3.106	1.00	0.00
ATOM	1419	H	VAL	A	94	8.917	13.580	-5.532	1.00	0.00
ATOM	1420	HA	VAL	A	94	9.948	11.033	-4.538	1.00	0.00
ATOM	1421	HB	VAL	A	94	7.062	11.809	-4.960	1.00	0.00
ATOM	1422	1HG1	VAL	A	94	6.497	9.944	-3.685	1.00	0.00
ATOM	1423	2HG1	VAL	A	94	8.123	9.785	-3.021	1.00	0.00
ATOM	1424	3HG1	VAL	A	94	7.813	9.360	-4.705	1.00	0.00
ATOM	1425	1HG2	VAL	A	94	8.962	12.505	-2.809	1.00	0.00
ATOM	1426	2HG2	VAL	A	94	7.374	11.939	-2.293	1.00	0.00
ATOM	1427	3HG2	VAL	A	94	7.508	13.340	-3.355	1.00	0.00
ATOM	1428	N	ASP	A	95	9.472	9.530	-6.471	1.00	0.00
ATOM	1429	CA	ASP	A	95	9.362	8.707	-7.670	1.00	0.00
ATOM	1430	C	ASP	A	95	8.695	7.372	-7.354	1.00	0.00
ATOM	1431	O	ASP	A	95	8.598	6.974	-6.192	1.00	0.00

ATOM 1432	CB	ASP	A	95	10.744	8.468	-8.279	1.00	0.00
ATOM 1433	CG	ASP	A	95	11.271	9.686	-9.011	1.00	0.00
ATOM 1434	OD1	ASP	A	95	10.879	10.815	-8.645	1.00	0.00
ATOM 1435	OD2	ASP	A	95	12.077	9.513	-9.949	1.00	0.00
ATOM 1436	H	ASP	A	95	9.906	9.160	-5.675	1.00	0.00
ATOM 1437	HA	ASP	A	95	8.752	9.240	-8.383	1.00	0.00
ATOM 1438	1HB	ASP	A	95	11.440	8.216	-7.491	1.00	0.00
ATOM 1439	2HB	ASP	A	95	10.686	7.647	-8.979	1.00	0.00
ATOM 1440	N	ARG	A	96	8.237	6.684	-8.394	1.00	0.00
ATOM 1441	CA	ARG	A	96	7.579	5.394	-8.229	1.00	0.00
ATOM 1442	C	ARG	A	96	8.512	4.387	-7.561	1.00	0.00
ATOM 1443	O	ARG	A	96	8.070	3.532	-6.794	1.00	0.00
ATOM 1444	CB	ARG	A	96	7.117	4.855	-9.584	1.00	0.00
ATOM 1445	CG	ARG	A	96	8.211	4.854	-10.642	1.00	0.00
ATOM 1446	CD	ARG	A	96	7.704	5.386	-11.973	1.00	0.00
ATOM 1447	NE	ARG	A	96	8.686	6.247	-12.629	1.00	0.00
ATOM 1448	CZ	ARG	A	96	8.387	7.109	-13.597	1.00	0.00
ATOM 1449	NH1	ARG	A	96	7.137	7.227	-14.028	1.00	0.00
ATOM 1450	NH2	ARG	A	96	9.341	7.856	-14.137	1.00	0.00
ATOM 1451	H	ARG	A	96	8.344	7.053	-9.295	1.00	0.00
ATOM 1452	HA	ARG	A	96	6.716	5.540	-7.598	1.00	0.00
ATOM 1453	1HB	ARG	A	96	6.768	3.841	-9.456	1.00	0.00
ATOM 1454	2HB	ARG	A	96	6.301	5.465	-9.941	1.00	0.00
ATOM 1455	1HG	ARG	A	96	9.026	5.476	-10.304	1.00	0.00
ATOM 1456	2HG	ARG	A	96	8.562	3.841	-10.780	1.00	0.00
ATOM 1457	1HD	ARG	A	96	7.485	4.550	-12.621	1.00	0.00
ATOM 1458	2HD	ARG	A	96	6.801	5.952	-11.800	1.00	0.00

ATOM	1459	HE	ARG	A	96	9.617	6.180	-12.330	1.00	0.00
ATOM	1460	1HH1	ARG	A	96	6.414	6.667	-13.626	1.00	0.00
ATOM	1461	2HH1	ARG	A	96	6.920	7.877	-14.756	1.00	0.00
ATOM	1462	1HH2	ARG	A	96	10.285	7.771	-13.815	1.00	0.00
ATOM	1463	2HH2	ARG	A	96	9.118	8.504	-14.866	1.00	0.00
ATOM	1464	N	VAL	A	97	9.802	4.497	-7.858	1.00	0.00
ATOM	1465	CA	VAL	A	97	10.796	3.597	-7.286	1.00	0.00
ATOM	1466	C	VAL	A	97	10.887	3.767	-5.773	1.00	0.00
ATOM	1467	O	VAL	A	97	11.020	2.790	-5.036	1.00	0.00
ATOM	1468	CB	VAL	A	97	12.188	3.833	-7.902	1.00	0.00
ATOM	1469	CG1	VAL	A	97	13.164	2.760	-7.445	1.00	0.00
ATOM	1470	CG2	VAL	A	97	12.101	3.874	-9.419	1.00	0.00
ATOM	1471	H	VAL	A	97	10.093	5.199	-8.476	1.00	0.00
ATOM	1472	HA	VAL	A	97	10.495	2.583	-7.507	1.00	0.00
ATOM	1473	HB	VAL	A	97	12.554	4.790	-7.558	1.00	0.00
ATOM	1474	1HG1	VAL	A	97	14.104	2.883	-7.964	1.00	0.00
ATOM	1475	2HG1	VAL	A	97	12.756	1.785	-7.663	1.00	0.00
ATOM	1476	3HG1	VAL	A	97	13.328	2.851	-6.381	1.00	0.00
ATOM	1477	1HG2	VAL	A	97	12.000	4.898	-9.747	1.00	0.00
ATOM	1478	2HG2	VAL	A	97	11.244	3.305	-9.747	1.00	0.00
ATOM	1479	3HG2	VAL	A	97	12.998	3.447	-9.844	1.00	0.00
ATOM	1480	N	ALA	A	98	10.817	5.013	-5.317	1.00	0.00
ATOM	1481	CA	ALA	A	98	10.893	5.311	-3.893	1.00	0.00
ATOM	1482	C	ALA	A	98	9.702	4.725	-3.144	1.00	0.00
ATOM	1483	O	ALA	A	98	9.864	4.094	-2.100	1.00	0.00
ATOM	1484	CB	ALA	A	98	10.970	6.814	-3.673	1.00	0.00
ATOM	1485	H	ALA	A	98	10.713	5.750	-5.956	1.00	0.00

ATOM 1486	HA	ALA A	98	11.801	4.869	-3.508	1.00	0.00
ATOM 1487	1HB	ALA A	98	10.662	7.045	-2.664	1.00	0.00
ATOM 1488	2HB	ALA A	98	10.316	7.313	-4.373	1.00	0.00
ATOM 1489	3HB	ALA A	98	11.985	7.149	-3.827	1.00	0.00
ATOM 1490	N	ILE A	99	8.507	4.935	-3.686	1.00	0.00
ATOM 1491	CA	ILE A	99	7.290	4.422	-3.067	1.00	0.00
ATOM 1492	C	ILE A	99	7.211	2.906	-3.205	1.00	0.00
ATOM 1493	O	ILE A	99	6.625	2.223	-2.366	1.00	0.00
ATOM 1494	CB	ILE A	99	6.024	5.050	-3.686	1.00	0.00
ATOM 1495	CG1	ILE A	99	6.202	6.561	-3.862	1.00	0.00
ATOM 1496	CG2	ILE A	99	4.811	4.754	-2.817	1.00	0.00
ATOM 1497	CD1	ILE A	99	5.011	7.239	-4.502	1.00	0.00
ATOM 1498	H	ILE A	99	8.443	5.441	-4.522	1.00	0.00
ATOM 1499	HA	ILE A	99	7.318	4.677	-2.017	1.00	0.00
ATOM 1500	HB	ILE A	99	5.860	4.599	-4.652	1.00	0.00
ATOM 1501	1HG1	ILE A	99	6.362	7.013	-2.896	1.00	0.00
ATOM 1502	2HG1	ILE A	99	7.063	6.746	-4.487	1.00	0.00
ATOM 1503	1HG2	ILE A	99	5.115	4.696	-1.782	1.00	0.00
ATOM 1504	2HG2	ILE A	99	4.375	3.812	-3.117	1.00	0.00
ATOM 1505	3HG2	ILE A	99	4.081	5.541	-2.935	1.00	0.00
ATOM 1506	1HD1	ILE A	99	5.045	7.092	-5.572	1.00	0.00
ATOM 1507	2HD1	ILE A	99	5.036	8.296	-4.281	1.00	0.00
ATOM 1508	3HD1	ILE A	99	4.100	6.812	-4.109	1.00	0.00
ATOM 1509	N	TYR A	100	7.812	2.386	-4.272	1.00	0.00
ATOM 1510	CA	TYR A	100	7.817	0.951	-4.527	1.00	0.00
ATOM 1511	C	TYR A	100	8.812	0.243	-3.616	1.00	0.00
ATOM 1512	O	TYR A	100	8.512	-0.809	-3.050	1.00	0.00

ATOM	1513	CB	TYR A 100	8.170	0.678	-5.990	1.00	0.00
ATOM	1514	CG	TYR A 100	8.110	-0.784	-6.366	1.00	0.00
ATOM	1515	CD1	TYR A 100	6.890	-1.426	-6.545	1.00	0.00
ATOM	1516	CD2	TYR A 100	9.272	-1.524	-6.544	1.00	0.00
ATOM	1517	CE1	TYR A 100	6.831	-2.763	-6.890	1.00	0.00
ATOM	1518	CE2	TYR A 100	9.221	-2.861	-6.889	1.00	0.00
ATOM	1519	CZ	TYR A 100	7.999	-3.476	-7.061	1.00	0.00
ATOM	1520	OH	TYR A 100	7.943	-4.806	-7.404	1.00	0.00
ATOM	1521	H	TYR A 100	8.265	2.984	-4.903	1.00	0.00
ATOM	1522	HA	TYR A 100	6.827	0.573	-4.327	1.00	0.00
ATOM	1523	1HB	TYR A 100	7.482	1.213	-6.624	1.00	0.00
ATOM	1524	2HB	TYR A 100	9.174	1.029	-6.180	1.00	0.00
ATOM	1525	HD1	TYR A 100	5.977	-0.865	-6.410	1.00	0.00
ATOM	1526	HD2	TYR A 100	10.228	-1.041	-6.408	1.00	0.00
ATOM	1527	HE1	TYR A 100	5.873	-3.244	-7.025	1.00	0.00
ATOM	1528	HE2	TYR A 100	10.136	-3.420	-7.023	1.00	0.00
ATOM	1529	HH	TYR A 100	7.890	-4.889	-8.360	1.00	0.00
ATOM	1530	N	GLU A 101	9.998	0.825	-3.481	1.00	0.00
ATOM	1531	CA	GLU A 101	11.042	0.250	-2.642	1.00	0.00
ATOM	1532	C	GLU A 101	10.604	0.187	-1.182	1.00	0.00
ATOM	1533	O	GLU A 101	10.647	-0.872	-0.556	1.00	0.00
ATOM	1534	CB	GLU A 101	12.331	1.065	-2.765	1.00	0.00
ATOM	1535	CG	GLU A 101	13.239	0.599	-3.891	1.00	0.00
ATOM	1536	CD	GLU A 101	14.706	0.636	-3.510	1.00	0.00
ATOM	1537	OE1	GLU A 101	15.081	1.484	-2.673	1.00	0.00
ATOM	1538	OE2	GLU A 101	15.481	-0.183	-4.048	1.00	0.00
ATOM	1539	H	GLU A 101	10.176	1.662	-3.961	1.00	0.00

ATOM 1540	HA	GLU A 101	11.230	-0.755	-2.991	1.00	0.00
ATOM 1541	1HB	GLU A 101	12.073	2.099	-2.944	1.00	0.00
ATOM 1542	2HB	GLU A 101	12.878	0.995	-1.837	1.00	0.00
ATOM 1543	1HG	GLU A 101	12.976	-0.415	-4.152	1.00	0.00
ATOM 1544	2HG	GLU A 101	13.088	1.240	-4.748	1.00	0.00
ATOM 1545	N	GLU A 102	10.184	1.328	-0.645	1.00	0.00
ATOM 1546	CA	GLU A 102	9.742	1.401	0.744	1.00	0.00
ATOM 1547	C	GLU A 102	8.595	0.428	1.006	1.00	0.00
ATOM 1548	O	GLU A 102	8.475	-0.124	2.101	1.00	0.00
ATOM 1549	CB	GLU A 102	9.305	2.827	1.089	1.00	0.00
ATOM 1550	CG	GLU A 102	8.222	3.371	0.171	1.00	0.00
ATOM 1551	CD	GLU A 102	6.826	3.136	0.714	1.00	0.00
ATOM 1552	OE1	GLU A 102	6.131	2.237	0.194	1.00	0.00
ATOM 1553	OE2	GLU A 102	6.428	3.848	1.659	1.00	0.00
ATOM 1554	H	GLU A 102	10.175	2.141	-1.192	1.00	0.00
ATOM 1555	HA	GLU A 102	10.576	1.129	1.372	1.00	0.00
ATOM 1556	1HB	GLU A 102	8.930	2.840	2.101	1.00	0.00
ATOM 1557	2HB	GLU A 102	10.164	3.479	1.025	1.00	0.00
ATOM 1558	1HG	GLU A 102	8.370	4.434	0.054	1.00	0.00
ATOM 1559	2HG	GLU A 102	8.306	2.888	-0.790	1.00	0.00
ATOM 1560	N	PHE A 103	7.756	0.223	-0.003	1.00	0.00
ATOM 1561	CA	PHE A 103	6.619	-0.683	0.120	1.00	0.00
ATOM 1562	C	PHE A 103	7.082	-2.137	0.167	1.00	0.00
ATOM 1563	O	PHE A 103	6.479	-2.969	0.844	1.00	0.00
ATOM 1564	CB	PHE A 103	5.652	-0.482	-1.048	1.00	0.00
ATOM 1565	CG	PHE A 103	4.430	-1.355	-0.975	1.00	0.00
ATOM 1566	CD1	PHE A 103	3.591	-1.304	0.127	1.00	0.00



ATOM 1567	CD2	PHE A 103	4.122	-2.226	-2.007	1.00	0.00
ATOM 1568	CE1	PHE A 103	2.467	-2.104	0.198	1.00	0.00
ATOM 1569	CE2	PHE A 103	2.999	-3.029	-1.943	1.00	0.00
ATOM 1570	CZ	PHE A 103	2.171	-2.968	-0.839	1.00	0.00
ATOM 1571	H	PHE A 103	7.902	0.692	-0.851	1.00	0.00
ATOM 1572	HA	PHE A 103	6.108	-0.451	1.043	1.00	0.00
ATOM 1573	1HB	PHE A 103	5.324	0.546	-1.062	1.00	0.00
ATOM 1574	2HB	PHE A 103	6.165	-0.704	-1.973	1.00	0.00
ATOM 1575	HD1	PHE A 103	3.822	-0.628	0.937	1.00	0.00
ATOM 1576	HD2	PHE A 103	4.769	-2.275	-2.871	1.00	0.00
ATOM 1577	HE1	PHE A 103	1.822	-2.054	1.061	1.00	0.00
ATOM 1578	HE2	PHE A 103	2.770	-3.705	-2.754	1.00	0.00
ATOM 1579	HZ	PHE A 103	1.293	-3.595	-0.787	1.00	0.00
ATOM 1580	N	LEU A 104	8.154	-2.434	-0.559	1.00	0.00
ATOM 1581	CA	LEU A 104	8.698	-3.787	-0.606	1.00	0.00
ATOM 1582	C	LEU A 104	9.212	-4.221	0.764	1.00	0.00
ATOM 1583	O	LEU A 104	8.941	-5.335	1.214	1.00	0.00
ATOM 1584	CB	LEU A 104	9.831	-3.867	-1.631	1.00	0.00
ATOM 1585	CG	LEU A 104	9.382	-3.922	-3.092	1.00	0.00
ATOM 1586	CD1	LEU A 104	10.582	-4.084	-4.014	1.00	0.00
ATOM 1587	CD2	LEU A 104	8.388	-5.055	-3.302	1.00	0.00
ATOM 1588	H	LEU A 104	8.589	-1.727	-1.080	1.00	0.00
ATOM 1589	HA	LEU A 104	7.905	-4.453	-0.907	1.00	0.00
ATOM 1590	1HB	LEU A 104	10.465	-3.003	-1.503	1.00	0.00
ATOM 1591	2HB	LEU A 104	10.412	-4.753	-1.423	1.00	0.00
ATOM 1592	HG	LEU A 104	8.890	-2.994	-3.346	1.00	0.00
ATOM 1593	1HD1	LEU A 104	10.600	-5.088	-4.412	1.00	0.00

ATOM 1594	2HD1	LEU	A	104	11.491	-3.901	-3.460	1.00	0.00
ATOM 1595	3HD1	LEU	A	104	10.509	-3.377	-4.827	1.00	0.00
ATOM 1596	1HD2	LEU	A	104	7.389	-4.700	-3.099	1.00	0.00
ATOM 1597	2HD2	LEU	A	104	8.624	-5.870	-2.633	1.00	0.00
ATOM 1598	3HD2	LEU	A	104	8.446	-5.400	-4.324	1.00	0.00
ATOM 1599	N	ARG	A	105	9.958	-3.337	1.418	1.00	0.00
ATOM 1600	CA	ARG	A	105	10.516	-3.629	2.735	1.00	0.00
ATOM 1601	C	ARG	A	105	9.430	-4.053	3.718	1.00	0.00
ATOM 1602	O	ARG	A	105	9.470	-5.156	4.265	1.00	0.00
ATOM 1603	CB	ARG	A	105	11.259	-2.406	3.278	1.00	0.00
ATOM 1604	CG	ARG	A	105	12.496	-2.757	4.088	1.00	0.00
ATOM 1605	CD	ARG	A	105	12.654	-1.841	5.290	1.00	0.00
ATOM 1606	NE	ARG	A	105	13.393	-0.625	4.958	1.00	0.00
ATOM 1607	CZ	ARG	A	105	13.735	0.302	5.850	1.00	0.00
ATOM 1608	NH1	ARG	A	105	13.408	0.156	7.128	1.00	0.00
ATOM 1609	NH2	ARG	A	105	14.406	1.379	5.463	1.00	0.00
ATOM 1610	H	ARG	A	105	10.141	-2.468	1.004	1.00	0.00
ATOM 1611	HA	ARG	A	105	11.218	-4.442	2.622	1.00	0.00
ATOM 1612	1HB	ARG	A	105	11.563	-1.786	2.448	1.00	0.00
ATOM 1613	2HB	ARG	A	105	10.588	-1.845	3.910	1.00	0.00
ATOM 1614	1HG	ARG	A	105	12.410	-3.777	4.435	1.00	0.00
ATOM 1615	2HG	ARG	A	105	13.367	-2.662	3.456	1.00	0.00
ATOM 1616	1HD	ARG	A	105	11.674	-1.568	5.650	1.00	0.00
ATOM 1617	2HD	ARG	A	105	13.186	-2.374	6.065	1.00	0.00
ATOM 1618	HE	ARG	A	105	13.646	-0.491	4.021	1.00	0.00
ATOM 1619	1HH1	ARG	A	105	12.902	-0.654	7.426	1.00	0.00
ATOM 1620	2HH1	ARG	A	105	13.669	0.855	7.794	1.00	0.00

ATOM 1621	1HH2	ARG	A	105	14.655	1.493	4.501	1.00	0.00
ATOM 1622	2HH2	ARG	A	105	14.663	2.075	6.133	1.00	0.00
ATOM 1623	N	MET	A	106	8.462	-3.170	3.943	1.00	0.00
ATOM 1624	CA	MET	A	106	7.368	-3.454	4.865	1.00	0.00
ATOM 1625	C	MET	A	106	6.592	-4.695	4.437	1.00	0.00
ATOM 1626	O	MET	A	106	6.004	-5.387	5.269	1.00	0.00
ATOM 1627	CB	MET	A	106	6.424	-2.255	4.955	1.00	0.00
ATOM 1628	CG	MET	A	106	5.727	-2.133	6.300	1.00	0.00
ATOM 1629	SD	MET	A	106	6.592	-1.031	7.434	1.00	0.00
ATOM 1630	CE	MET	A	106	6.637	0.478	6.470	1.00	0.00
ATOM 1631	H	MET	A	106	8.486	-2.306	3.479	1.00	0.00
ATOM 1632	HA	MET	A	106	7.797	-3.633	5.840	1.00	0.00
ATOM 1633	1HB	MET	A	106	6.990	-1.351	4.784	1.00	0.00
ATOM 1634	2HB	MET	A	106	5.669	-2.347	4.189	1.00	0.00
ATOM 1635	1HG	MET	A	106	4.730	-1.752	6.141	1.00	0.00
ATOM 1636	2HG	MET	A	106	5.668	-3.115	6.748	1.00	0.00
ATOM 1637	1HE	MET	A	106	6.089	0.334	5.551	1.00	0.00
ATOM 1638	2HE	MET	A	106	7.662	0.730	6.243	1.00	0.00
ATOM 1639	3HE	MET	A	106	6.186	1.280	7.036	1.00	0.00
ATOM 1640	N	THR	A	107	6.590	-4.971	3.138	1.00	0.00
ATOM 1641	CA	THR	A	107	5.881	-6.132	2.606	1.00	0.00
ATOM 1642	C	THR	A	107	6.805	-7.342	2.491	1.00	0.00
ATOM 1643	O	THR	A	107	6.486	-8.311	1.801	1.00	0.00
ATOM 1644	CB	THR	A	107	5.283	-5.804	1.239	1.00	0.00
ATOM 1645	OG1	THR	A	107	6.294	-5.386	0.338	1.00	0.00
ATOM 1646	CG2	THR	A	107	4.232	-4.716	1.291	1.00	0.00
ATOM 1647	H	THR	A	107	7.075	-4.384	2.522	1.00	0.00

ATOM 1648	HA	THR A 107	5.080	-6.369	3.290	1.00	0.00
ATOM 1649	HB	THR A 107	4.819	-6.695	0.839	1.00	0.00
ATOM 1650	HG1	THR A 107	5.892	-5.089	-0.482	1.00	0.00
ATOM 1651	1HG2	THR A 107	4.317	-4.092	0.414	1.00	0.00
ATOM 1652	2HG2	THR A 107	4.379	-4.116	2.177	1.00	0.00
ATOM 1653	3HG2	THR A 107	3.250	-5.166	1.318	1.00	0.00
ATOM 1654	N	HIS A 108	7.950	-7.286	3.168	1.00	0.00
ATOM 1655	CA	HIS A 108	8.912	-8.383	3.135	1.00	0.00
ATOM 1656	C	HIS A 108	9.278	-8.746	1.698	1.00	0.00
ATOM 1657	O	HIS A 108	8.948	-9.831	1.217	1.00	0.00
ATOM 1658	CB	HIS A 108	8.345	-9.607	3.858	1.00	0.00
ATOM 1659	CG	HIS A 108	7.809	-9.302	5.222	1.00	0.00
ATOM 1660	ND1	HIS A 108	6.530	-8.836	5.443	1.00	0.00
ATOM 1661	CD2	HIS A 108	8.387	-9.401	6.443	1.00	0.00
ATOM 1662	CE1	HIS A 108	6.344	-8.661	6.739	1.00	0.00
ATOM 1663	NE2	HIS A 108	7.456	-8.996	7.368	1.00	0.00
ATOM 1664	H	HIS A 108	8.153	-6.491	3.702	1.00	0.00
ATOM 1665	HA	HIS A 108	9.804	-8.055	3.648	1.00	0.00
ATOM 1666	1HB	HIS A 108	7.539	-10.022	3.270	1.00	0.00
ATOM 1667	2HB	HIS A 108	9.125	-10.347	3.963	1.00	0.00
ATOM 1668	HD1	HIS A 108	5.858	-8.659	4.752	1.00	0.00
ATOM 1669	HD2	HIS A 108	9.394	-9.736	6.652	1.00	0.00
ATOM 1670	HE1	HIS A 108	5.438	-8.304	7.205	1.00	0.00
ATOM 1671	HE2	HIS A 108	7.563	-9.039	8.341	1.00	0.00
ATOM 1672	N	ASN A 109	9.959	-7.830	1.017	1.00	0.00
ATOM 1673	CA	ASN A 109	10.369	-8.053	-0.365	1.00	0.00
ATOM 1674	C	ASN A 109	9.155	-8.198	-1.278	1.00	0.00

ATOM 1675	O	ASN A 109	9.173	-8.976	-2.231	1.00	0.00
ATOM 1676	CB	ASN A 109	11.249	-9.301	-0.466	1.00	0.00
ATOM 1677	CG	ASN A 109	12.359	-9.146	-1.487	1.00	0.00
ATOM 1678	OD1	ASN A 109	12.815	-8.036	-1.762	1.00	0.00
ATOM 1679	ND2	ASN A 109	12.800	-10.263	-2.054	1.00	0.00
ATOM 1680	H	ASN A 109	10.192	-6.985	1.455	1.00	0.00
ATOM 1681	HA	ASN A 109	10.942	-7.195	-0.683	1.00	0.00
ATOM 1682	1HB	ASN A 109	11.696	-9.497	0.497	1.00	0.00
ATOM 1683	2HB	ASN A 109	10.636	-10.143	-0.752	1.00	0.00
ATOM 1684	1HD2	ASN A 109	12.391	-11.112	-1.786	1.00	0.00
ATOM 1685	2HD2	ASN A 109	13.518	-10.192	-2.718	1.00	0.00
ATOM 1686	N	GLY A 110	8.102	-7.445	-0.978	1.00	0.00
ATOM 1687	CA	GLY A 110	6.894	-7.506	-1.781	1.00	0.00
ATOM 1688	C	GLY A 110	6.299	-8.899	-1.827	1.00	0.00
ATOM 1689	O	GLY A 110	6.134	-9.475	-2.902	1.00	0.00
ATOM 1690	H	GLY A 110	8.144	-6.843	-0.205	1.00	0.00
ATOM 1691	1HA	GLY A 110	6.163	-6.828	-1.366	1.00	0.00
ATOM 1692	2HA	GLY A 110	7.127	-7.193	-2.788	1.00	0.00
ATOM 1693	N	THR A 111	5.978	-9.443	-0.658	1.00	0.00
ATOM 1694	CA	THR A 111	5.401	-10.778	-0.571	1.00	0.00
ATOM 1695	C	THR A 111	4.334	-10.852	0.519	1.00	0.00
ATOM 1696	O	THR A 111	3.275	-11.445	0.321	1.00	0.00
ATOM 1697	CB	THR A 111	6.496	-11.812	-0.296	1.00	0.00
ATOM 1698	OG1	THR A 111	7.118	-11.563	0.951	1.00	0.00
ATOM 1699	CG2	THR A 111	7.577	-11.833	-1.353	1.00	0.00
ATOM 1700	H	THR A 111	6.135	-8.934	0.164	1.00	0.00
ATOM 1701	HA	THR A 111	4.941	-11.002	-1.521	1.00	0.00

ATOM 1702	HB	THR A 111	6.047	-12.795	-0.262	1.00	0.00
ATOM 1703	HG1	THR A 111	6.718	-12.118	1.626	1.00	0.00
ATOM 1704	1HG2	THR A 111	7.802	-12.856	-1.619	1.00	0.00
ATOM 1705	2HG2	THR A 111	8.467	-11.358	-0.966	1.00	0.00
ATOM 1706	3HG2	THR A 111	7.237	-11.301	-2.229	1.00	0.00
ATOM 1707	N	GLN A 112	4.622	-10.252	1.670	1.00	0.00
ATOM 1708	CA	GLN A 112	3.684	-10.260	2.788	1.00	0.00
ATOM 1709	C	GLN A 112	3.416	-8.847	3.295	1.00	0.00
ATOM 1710	O	GLN A 112	4.215	-8.282	4.041	1.00	0.00
ATOM 1711	CB	GLN A 112	4.225	-11.128	3.925	1.00	0.00
ATOM 1712	CG	GLN A 112	3.252	-11.292	5.082	1.00	0.00
ATOM 1713	CD	GLN A 112	3.622	-12.442	5.998	1.00	0.00
ATOM 1714	OE1	GLN A 112	4.491	-13.252	5.675	1.00	0.00
ATOM 1715	NE2	GLN A 112	2.964	-12.518	7.148	1.00	0.00
ATOM 1716	H	GLN A 112	5.484	-9.798	1.773	1.00	0.00
ATOM 1717	HA	GLN A 112	2.756	-10.685	2.436	1.00	0.00
ATOM 1718	1HB	GLN A 112	4.455	-12.108	3.536	1.00	0.00
ATOM 1719	2HB	GLN A 112	5.131	-10.679	4.306	1.00	0.00
ATOM 1720	1HG	GLN A 112	3.244	-10.380	5.660	1.00	0.00
ATOM 1721	2HG	GLN A 112	2.265	-11.472	4.682	1.00	0.00
ATOM 1722	1HE2	GLN A 112	2.285	-11.838	7.338	1.00	0.00
ATOM 1723	2HE2	GLN A 112	3.183	-13.252	7.759	1.00	0.00
ATOM 1724	N	LEU A 113	2.281	-8.284	2.891	1.00	0.00
ATOM 1725	CA	LEU A 113	1.902	-6.939	3.312	1.00	0.00
ATOM 1726	C	LEU A 113	1.241	-6.972	4.686	1.00	0.00
ATOM 1727	O	LEU A 113	0.039	-7.209	4.801	1.00	0.00
ATOM 1728	CB	LEU A 113	0.956	-6.306	2.284	1.00	0.00

ATOM 1729	CG	LEU A 113	0.431	-4.907	2.635	1.00	0.00
ATOM 1730	CD1	LEU A 113	-0.809	-5.004	3.510	1.00	0.00
ATOM 1731	CD2	LEU A 113	1.505	-4.076	3.324	1.00	0.00
ATOM 1732	H	LEU A 113	1.680	-8.786	2.301	1.00	0.00
ATOM 1733	HA	LEU A 113	2.803	-6.346	3.373	1.00	0.00
ATOM 1734	1HB	LEU A 113	1.478	-6.243	1.341	1.00	0.00
ATOM 1735	2HB	LEU A 113	0.107	-6.962	2.162	1.00	0.00
ATOM 1736	HG	LEU A 113	0.152	-4.400	1.722	1.00	0.00
ATOM 1737	1HD1	LEU A 113	-1.484	-4.196	3.268	1.00	0.00
ATOM 1738	2HD1	LEU A 113	-0.524	-4.935	4.548	1.00	0.00
ATOM 1739	3HD1	LEU A 113	-1.301	-5.949	3.333	1.00	0.00
ATOM 1740	1HD2	LEU A 113	1.082	-3.133	3.639	1.00	0.00
ATOM 1741	2HD2	LEU A 113	2.317	-3.895	2.636	1.00	0.00
ATOM 1742	3HD2	LEU A 113	1.877	-4.610	4.186	1.00	0.00
ATOM 1743	N	LEU A 114	2.037	-6.739	5.725	1.00	0.00
ATOM 1744	CA	LEU A 114	1.534	-6.745	7.094	1.00	0.00
ATOM 1745	C	LEU A 114	0.934	-8.105	7.448	1.00	0.00
ATOM 1746	O	LEU A 114	1.595	-8.944	8.060	1.00	0.00
ATOM 1747	CB	LEU A 114	0.490	-5.641	7.283	1.00	0.00
ATOM 1748	CG	LEU A 114	1.050	-4.217	7.292	1.00	0.00
ATOM 1749	CD1	LEU A 114	-0.080	-3.200	7.313	1.00	0.00
ATOM 1750	CD2	LEU A 114	1.975	-4.018	8.483	1.00	0.00
ATOM 1751	H	LEU A 114	2.988	-6.561	5.567	1.00	0.00
ATOM 1752	HA	LEU A 114	2.368	-6.554	7.752	1.00	0.00
ATOM 1753	1HB	LEU A 114	-0.232	-5.717	6.483	1.00	0.00
ATOM 1754	2HB	LEU A 114	-0.017	-5.810	8.221	1.00	0.00
ATOM 1755	HG	LEU A 114	1.625	-4.059	6.391	1.00	0.00

ATOM 1756	1HD1	LEU	A	114	-0.978	-3.665	7.693	1.00	0.00
ATOM 1757	2HD1	LEU	A	114	-0.259	-2.839	6.311	1.00	0.00
ATOM 1758	3HD1	LEU	A	114	0.193	-2.372	7.950	1.00	0.00
ATOM 1759	1HD2	LEU	A	114	2.963	-4.375	8.236	1.00	0.00
ATOM 1760	2HD2	LEU	A	114	1.595	-4.569	9.331	1.00	0.00
ATOM 1761	3HD2	LEU	A	114	2.022	-2.968	8.730	1.00	0.00
ATOM 1762	N	ASN	A	115	-0.320	-8.318	7.059	1.00	0.00
ATOM 1763	CA	ASN	A	115	-1.004	-9.577	7.333	1.00	0.00
ATOM 1764	C	ASN	A	115	-1.728	-10.085	6.088	1.00	0.00
ATOM 1765	O	ASN	A	115	-2.712	-10.816	6.187	1.00	0.00
ATOM 1766	CB	ASN	A	115	-2.001	-9.402	8.480	1.00	0.00
ATOM 1767	CG	ASN	A	115	-1.323	-9.036	9.786	1.00	0.00
ATOM 1768	OD1	ASN	A	115	-0.095	-9.021	9.878	1.00	0.00
ATOM 1769	ND2	ASN	A	115	-2.122	-8.742	10.805	1.00	0.00
ATOM 1770	H	ASN	A	115	-0.796	-7.614	6.572	1.00	0.00
ATOM 1771	HA	ASN	A	115	-0.259	-10.302	7.623	1.00	0.00
ATOM 1772	1HB	ASN	A	115	-2.697	-8.616	8.227	1.00	0.00
ATOM 1773	2HB	ASN	A	115	-2.543	-10.325	8.622	1.00	0.00
ATOM 1774	1HD2	ASN	A	115	-3.090	-8.776	10.659	1.00	0.00
ATOM 1775	2HD2	ASN	A	115	-1.710	-8.502	11.662	1.00	0.00
ATOM 1776	N	PHE	A	116	-1.232	-9.693	4.918	1.00	0.00
ATOM 1777	CA	PHE	A	116	-1.830	-10.108	3.655	1.00	0.00
ATOM 1778	C	PHE	A	116	-0.755	-10.510	2.651	1.00	0.00
ATOM 1779	O	PHE	A	116	-0.090	-9.656	2.064	1.00	0.00
ATOM 1780	CB	PHE	A	116	-2.686	-8.979	3.076	1.00	0.00
ATOM 1781	CG	PHE	A	116	-4.023	-8.834	3.744	1.00	0.00
ATOM 1782	CD1	PHE	A	116	-4.114	-8.387	5.052	1.00	0.00



ATOM 1783	CD2	PHE A 116	-5.190	-9.145	3.064	1.00	0.00
ATOM 1784	CE1	PHE A 116	-5.343	-8.251	5.669	1.00	0.00
ATOM 1785	CE2	PHE A 116	-6.422	-9.012	3.676	1.00	0.00
ATOM 1786	CZ	PHE A 116	-6.498	-8.565	4.979	1.00	0.00
ATOM 1787	H	PHE A 116	-0.443	-9.110	4.903	1.00	0.00
ATOM 1788	HA	PHE A 116	-2.461	-10.961	3.851	1.00	0.00
ATOM 1789	1HB	PHE A 116	-2.158	-8.044	3.185	1.00	0.00
ATOM 1790	2HB	PHE A 116	-2.856	-9.170	2.026	1.00	0.00
ATOM 1791	HD1	PHE A 116	-3.212	-8.141	5.592	1.00	0.00
ATOM 1792	HD2	PHE A 116	-5.131	-9.494	2.043	1.00	0.00
ATOM 1793	HE1	PHE A 116	-5.400	-7.903	6.690	1.00	0.00
ATOM 1794	HE2	PHE A 116	-7.324	-9.257	3.134	1.00	0.00
ATOM 1795	HZ	PHE A 116	-7.460	-8.460	5.460	1.00	0.00
ATOM 1796	N	THR A 117	-0.588	-11.814	2.459	1.00	0.00
ATOM 1797	CA	THR A 117	0.408	-12.326	1.526	1.00	0.00
ATOM 1798	C	THR A 117	-0.009	-12.062	0.084	1.00	0.00
ATOM 1799	O	THR A 117	-0.993	-12.619	-0.402	1.00	0.00
ATOM 1800	CB	THR A 117	0.618	-13.826	1.743	1.00	0.00
ATOM 1801	OG1	THR A 117	-0.620	-14.512	1.738	1.00	0.00
ATOM 1802	CG2	THR A 117	1.317	-14.149	3.046	1.00	0.00
ATOM 1803	H	THR A 117	-1.148	-12.447	2.956	1.00	0.00
ATOM 1804	HA	THR A 117	1.336	-11.811	1.719	1.00	0.00
ATOM 1805	HB	THR A 117	1.225	-14.213	0.937	1.00	0.00
ATOM 1806	HG1	THR A 117	-0.657	-15.100	0.981	1.00	0.00
ATOM 1807	1HG2	THR A 117	2.140	-13.467	3.192	1.00	0.00
ATOM 1808	2HG2	THR A 117	1.691	-15.163	3.012	1.00	0.00
ATOM 1809	3HG2	THR A 117	0.618	-14.050	3.863	1.00	0.00

ATOM 1810	N	LEU A 118	0.748	-11.206	-0.598	1.00	0.00
ATOM 1811	CA	LEU A 118	0.457	-10.867	-1.985	1.00	0.00
ATOM 1812	C	LEU A 118	1.666	-11.133	-2.876	1.00	0.00
ATOM 1813	O	LEU A 118	2.796	-11.224	-2.396	1.00	0.00
ATOM 1814	CB	LEU A 118	0.032	-9.401	-2.098	1.00	0.00
ATOM 1815	CG	LEU A 118	1.015	-8.390	-1.504	1.00	0.00
ATOM 1816	CD1	LEU A 118	2.018	-7.941	-2.554	1.00	0.00
ATOM 1817	CD2	LEU A 118	0.265	-7.197	-0.932	1.00	0.00
ATOM 1818	H	LEU A 118	1.519	-10.794	-0.156	1.00	0.00
ATOM 1819	HA	LEU A 118	-0.359	-11.494	-2.313	1.00	0.00
ATOM 1820	1HB	LEU A 118	-0.104	-9.167	-3.144	1.00	0.00
ATOM 1821	2HB	LEU A 118	-0.916	-9.285	-1.595	1.00	0.00
ATOM 1822	HG	LEU A 118	1.561	-8.859	-0.700	1.00	0.00
ATOM 1823	1HD1	LEU A 118	2.931	-8.506	-2.445	1.00	0.00
ATOM 1824	2HD1	LEU A 118	2.229	-6.888	-2.424	1.00	0.00
ATOM 1825	3HD1	LEU A 118	1.607	-8.106	-3.539	1.00	0.00
ATOM 1826	1HD2	LEU A 118	0.834	-6.295	-1.108	1.00	0.00
ATOM 1827	2HD2	LEU A 118	0.126	-7.334	0.130	1.00	0.00
ATOM 1828	3HD2	LEU A 118	-0.699	-7.113	-1.413	1.00	0.00
ATOM 1829	N	ASP A 119	1.419	-11.262	-4.174	1.00	0.00
ATOM 1830	CA	ASP A 119	2.485	-11.523	-5.137	1.00	0.00
ATOM 1831	C	ASP A 119	3.526	-10.408	-5.118	1.00	0.00
ATOM 1832	O	ASP A 119	3.337	-9.379	-4.472	1.00	0.00
ATOM 1833	CB	ASP A 119	1.905	-11.672	-6.543	1.00	0.00
ATOM 1834	CG	ASP A 119	2.619	-12.736	-7.354	1.00	0.00
ATOM 1835	OD1	ASP A 119	3.764	-13.084	-7.000	1.00	0.00
ATOM 1836	OD2	ASP A 119	2.032	-13.222	-8.345	1.00	0.00

ATOM 1837	H	ASP A 119	0.496	-11.182	-4.495	1.00	0.00
ATOM 1838	HA	ASP A 119	2.963	-12.449	-4.855	1.00	0.00
ATOM 1839	1HB	ASP A 119	0.862	-11.943	-6.470	1.00	0.00
ATOM 1840	2HB	ASP A 119	1.992	-10.730	-7.064	1.00	0.00
ATOM 1841	N	ARG A 120	4.625	-10.623	-5.835	1.00	0.00
ATOM 1842	CA	ARG A 120	5.698	-9.637	-5.906	1.00	0.00
ATOM 1843	C	ARG A 120	5.783	-9.027	-7.301	1.00	0.00
ATOM 1844	O	ARG A 120	5.763	-7.805	-7.457	1.00	0.00
ATOM 1845	CB	ARG A 120	7.035	-10.282	-5.536	1.00	0.00
ATOM 1846	CG	ARG A 120	8.195	-9.300	-5.500	1.00	0.00
ATOM 1847	CD	ARG A 120	9.521	-10.012	-5.289	1.00	0.00
ATOM 1848	NE	ARG A 120	9.753	-11.046	-6.295	1.00	0.00
ATOM 1849	CZ	ARG A 120	10.787	-11.883	-6.273	1.00	0.00
ATOM 1850	NH1	ARG A 120	11.688	-11.811	-5.300	1.00	0.00
ATOM 1851	NH2	ARG A 120	10.922	-12.795	-7.226	1.00	0.00
ATOM 1852	H	ARG A 120	4.716	-11.463	-6.329	1.00	0.00
ATOM 1853	HA	ARG A 120	5.477	-8.855	-5.196	1.00	0.00
ATOM 1854	1HB	ARG A 120	6.945	-10.737	-4.560	1.00	0.00
ATOM 1855	2HB	ARG A 120	7.263	-11.049	-6.261	1.00	0.00
ATOM 1856	1HG	ARG A 120	8.230	-8.764	-6.437	1.00	0.00
ATOM 1857	2HG	ARG A 120	8.037	-8.603	-4.689	1.00	0.00
ATOM 1858	1HD	ARG A 120	10.318	-9.285	-5.345	1.00	0.00
ATOM 1859	2HD	ARG A 120	9.520	-10.468	-4.310	1.00	0.00
ATOM 1860	HE	ARG A 120	9.103	-11.121	-7.025	1.00	0.00
ATOM 1861	1HH1	ARG A 120	11.592	-11.126	-4.578	1.00	0.00
ATOM 1862	2HH1	ARG A 120	12.463	-12.442	-5.290	1.00	0.00
ATOM 1863	1HH2	ARG A 120	10.247	-12.854	-7.960	1.00	0.00

ATOM	1864	2HH2	ARG	A	120	11.700	-13.424	-7.210	1.00	0.00
ATOM	1865	N	LYS	A	121	5.880	-9.885	-8.311	1.00	0.00
ATOM	1866	CA	LYS	A	121	5.968	-9.429	-9.695	1.00	0.00
ATOM	1867	C	LYS	A	121	4.752	-8.590	-10.071	1.00	0.00
ATOM	1868	O	LYS	A	121	4.856	-7.644	-10.852	1.00	0.00
ATOM	1869	CB	LYS	A	121	6.090	-10.626	-10.640	1.00	0.00
ATOM	1870	CG	LYS	A	121	4.994	-11.663	-10.453	1.00	0.00
ATOM	1871	CD	LYS	A	121	4.971	-12.661	-11.600	1.00	0.00
ATOM	1872	CE	LYS	A	121	3.548	-13.029	-11.988	1.00	0.00
ATOM	1873	NZ	LYS	A	121	3.490	-14.316	-12.734	1.00	0.00
ATOM	1874	H	LYS	A	121	5.891	-10.846	-8.123	1.00	0.00
ATOM	1875	HA	LYS	A	121	6.854	-8.820	-9.786	1.00	0.00
ATOM	1876	1HB	LYS	A	121	6.048	-10.271	-11.659	1.00	0.00
ATOM	1877	2HB	LYS	A	121	7.042	-11.106	-10.475	1.00	0.00
ATOM	1878	1HG	LYS	A	121	5.171	-12.196	-9.530	1.00	0.00
ATOM	1879	2HG	LYS	A	121	4.040	-11.160	-10.405	1.00	0.00
ATOM	1880	1HD	LYS	A	121	5.465	-12.225	-12.455	1.00	0.00
ATOM	1881	2HD	LYS	A	121	5.494	-13.556	-11.297	1.00	0.00
ATOM	1882	1HE	LYS	A	121	2.954	-13.116	-11.091	1.00	0.00
ATOM	1883	2HE	LYS	A	121	3.144	-12.244	-12.611	1.00	0.00
ATOM	1884	1HZ	LYS	A	121	3.460	-15.115	-12.068	1.00	0.00
ATOM	1885	2HZ	LYS	A	121	4.328	-14.417	-13.340	1.00	0.00
ATOM	1886	3HZ	LYS	A	121	2.639	-14.345	-13.332	1.00	0.00
ATOM	1887	N	SER	A	122	3.600	-8.942	-9.512	1.00	0.00
ATOM	1888	CA	SER	A	122	2.364	-8.220	-9.789	1.00	0.00
ATOM	1889	C	SER	A	122	2.433	-6.796	-9.248	1.00	0.00
ATOM	1890	O	SER	A	122	1.835	-5.878	-9.809	1.00	0.00

ATOM 1891	CB	SER A 122	1.170	-8.954	-9.174	1.00	0.00
ATOM 1892	OG	SER A 122	1.063	-8.680	-7.787	1.00	0.00
ATOM 1893	H	SER A 122	3.579	-9.706	-8.898	1.00	0.00
ATOM 1894	HA	SER A 122	2.236	-8.180	-10.861	1.00	0.00
ATOM 1895	1HB	SER A 122	0.262	-8.633	-9.663	1.00	0.00
ATOM 1896	2HB	SER A 122	1.295	-10.018	-9.310	1.00	0.00
ATOM 1897	HG	SER A 122	1.931	-8.737	-7.381	1.00	0.00
ATOM 1898	N	VAL A 123	3.168	-6.618	-8.156	1.00	0.00
ATOM 1899	CA	VAL A 123	3.316	-5.306	-7.539	1.00	0.00
ATOM 1900	C	VAL A 123	3.992	-4.324	-8.490	1.00	0.00
ATOM 1901	O	VAL A 123	4.999	-4.648	-9.120	1.00	0.00
ATOM 1902	CB	VAL A 123	4.134	-5.385	-6.236	1.00	0.00
ATOM 1903	CG1	VAL A 123	4.082	-4.060	-5.490	1.00	0.00
ATOM 1904	CG2	VAL A 123	3.632	-6.520	-5.357	1.00	0.00
ATOM 1905	H	VAL A 123	3.621	-7.389	-7.754	1.00	0.00
ATOM 1906	HA	VAL A 123	2.329	-4.937	-7.298	1.00	0.00
ATOM 1907	HB	VAL A 123	5.164	-5.586	-6.494	1.00	0.00
ATOM 1908	1HG1	VAL A 123	3.808	-3.271	-6.175	1.00	0.00
ATOM 1909	2HG1	VAL A 123	5.051	-3.848	-5.064	1.00	0.00
ATOM 1910	3HG1	VAL A 123	3.347	-4.122	-4.700	1.00	0.00
ATOM 1911	1HG2	VAL A 123	2.560	-6.605	-5.455	1.00	0.00
ATOM 1912	2HG2	VAL A 123	3.884	-6.317	-4.327	1.00	0.00
ATOM 1913	3HG2	VAL A 123	4.096	-7.446	-5.665	1.00	0.00
ATOM 1914	N	PHE A 124	3.431	-3.125	-8.590	1.00	0.00
ATOM 1915	CA	PHE A 124	3.978	-2.094	-9.466	1.00	0.00
ATOM 1916	C	PHE A 124	3.325	-0.744	-9.189	1.00	0.00
ATOM 1917	O	PHE A 124	2.223	-0.676	-8.643	1.00	0.00

ATOM	1918	CB	PHE A 124	3.775	-2.479	-10.932	1.00	0.00
ATOM	1919	CG	PHE A 124	4.366	-1.494	-11.900	1.00	0.00
ATOM	1920	CD1	PHE A 124	3.622	-0.417	-12.353	1.00	0.00
ATOM	1921	CD2	PHE A 124	5.666	-1.645	-12.355	1.00	0.00
ATOM	1922	CE1	PHE A 124	4.163	0.491	-13.243	1.00	0.00
ATOM	1923	CE2	PHE A 124	6.212	-0.741	-13.244	1.00	0.00
ATOM	1924	CZ	PHE A 124	5.461	0.329	-13.689	1.00	0.00
ATOM	1925	H	PHE A 124	2.628	-2.926	-8.063	1.00	0.00
ATOM	1926	HA	PHE A 124	5.036	-2.017	-9.265	1.00	0.00
ATOM	1927	1HB	PHE A 124	4.237	-3.439	-11.112	1.00	0.00
ATOM	1928	2HB	PHE A 124	2.716	-2.552	-11.135	1.00	0.00
ATOM	1929	HD1	PHE A 124	2.608	-0.289	-12.004	1.00	0.00
ATOM	1930	HD2	PHE A 124	6.255	-2.482	-12.008	1.00	0.00
ATOM	1931	HE1	PHE A 124	3.573	1.326	-13.589	1.00	0.00
ATOM	1932	HE2	PHE A 124	7.227	-0.870	-13.592	1.00	0.00
ATOM	1933	HZ	PHE A 124	5.885	1.037	-14.385	1.00	0.00
ATOM	1934	N	VAL A 125	4.012	0.329	-9.569	1.00	0.00
ATOM	1935	CA	VAL A 125	3.497	1.677	-9.361	1.00	0.00
ATOM	1936	C	VAL A 125	4.041	2.640	-10.412	1.00	0.00
ATOM	1937	O	VAL A 125	5.247	2.696	-10.653	1.00	0.00
ATOM	1938	CB	VAL A 125	3.853	2.204	-7.956	1.00	0.00
ATOM	1939	CG1	VAL A 125	5.362	2.262	-7.770	1.00	0.00
ATOM	1940	CG2	VAL A 125	3.223	3.571	-7.718	1.00	0.00
ATOM	1941	H	VAL A 125	4.884	0.211	-9.998	1.00	0.00
ATOM	1942	HA	VAL A 125	2.421	1.638	-9.446	1.00	0.00
ATOM	1943	HB	VAL A 125	3.452	1.517	-7.226	1.00	0.00
ATOM	1944	1HG1	VAL A 125	5.698	3.283	-7.870	1.00	0.00

ATOM 1945	2HG1	VAL	A	125	5.842	1.651	-8.520	1.00	0.00
ATOM 1946	3HG1	VAL	A	125	5.618	1.893	-6.788	1.00	0.00
ATOM 1947	1HG2	VAL	A	125	2.673	3.874	-8.596	1.00	0.00
ATOM 1948	2HG2	VAL	A	125	3.998	4.295	-7.511	1.00	0.00
ATOM 1949	3HG2	VAL	A	125	2.551	3.515	-6.874	1.00	0.00
ATOM 1950	N	ASP	A	126	3.142	3.396	-11.035	1.00	0.00
ATOM 1951	CA	ASP	A	126	3.531	4.358	-12.059	1.00	0.00
ATOM 1952	C	ASP	A	126	2.986	5.746	-11.737	1.00	0.00
ATOM 1953	O	ASP	A	126	2.178	5.910	-10.823	1.00	0.00
ATOM 1954	CB	ASP	A	126	3.027	3.901	-13.432	1.00	0.00
ATOM 1955	CG	ASP	A	126	4.158	3.671	-14.416	1.00	0.00
ATOM 1956	OD1	ASP	A	126	5.231	4.286	-14.241	1.00	0.00
ATOM 1957	OD2	ASP	A	126	3.970	2.875	-15.360	1.00	0.00
ATOM 1958	H	ASP	A	126	2.196	3.306	-10.799	1.00	0.00
ATOM 1959	HA	ASP	A	126	4.609	4.404	-12.079	1.00	0.00
ATOM 1960	1HB	ASP	A	126	2.480	2.977	-13.318	1.00	0.00
ATOM 1961	2HB	ASP	A	126	2.369	4.656	-13.838	1.00	0.00
ATOM 1962	N	SER	A	127	3.436	6.742	-12.493	1.00	0.00
ATOM 1963	CA	SER	A	127	2.993	8.115	-12.288	1.00	0.00
ATOM 1964	C	SER	A	127	1.584	8.321	-12.834	1.00	0.00
ATOM 1965	O	SER	A	127	1.400	8.581	-14.024	1.00	0.00
ATOM 1966	CB	SER	A	127	3.960	9.091	-12.960	1.00	0.00
ATOM 1967	OG	SER	A	127	3.630	10.434	-12.649	1.00	0.00
ATOM 1968	H	SER	A	127	4.079	6.548	-13.206	1.00	0.00
ATOM 1969	HA	SER	A	127	2.984	8.306	-11.225	1.00	0.00
ATOM 1970	1HB	SER	A	127	4.965	8.892	-12.617	1.00	0.00
ATOM 1971	2HB	SER	A	127	3.913	8.961	-14.031	1.00	0.00

ATOM 1972	HG	SER A 127	4.264	11.024	-13.063	1.00	0.00
ATOM 1973	N	GLY A 128	0.591	8.203	-11.958	1.00	0.00
ATOM 1974	CA	GLY A 128	-0.788	8.378	-12.373	1.00	0.00
ATOM 1975	C	GLY A 128	-1.135	9.832	-12.636	1.00	0.00
ATOM 1976	O	GLY A 128	-0.399	10.731	-12.227	1.00	0.00
ATOM 1977	H	GLY A 128	0.797	7.994	-11.023	1.00	0.00
ATOM 1978	1HA	GLY A 128	-0.955	7.811	-13.278	1.00	0.00
ATOM 1979	2HA	GLY A 128	-1.436	7.999	-11.598	1.00	0.00
ATOM 1980	N	PRO A 129	-2.260	10.096	-13.321	1.00	0.00
ATOM 1981	CA	PRO A 129	-2.695	11.462	-13.634	1.00	0.00
ATOM 1982	C	PRO A 129	-2.877	12.311	-12.380	1.00	0.00
ATOM 1983	O	PRO A 129	-2.909	11.790	-11.266	1.00	0.00
ATOM 1984	CB	PRO A 129	-4.038	11.263	-14.344	1.00	0.00
ATOM 1985	CG	PRO A 129	-4.004	9.861	-14.847	1.00	0.00
ATOM 1986	CD	PRO A 129	-3.194	9.086	-13.846	1.00	0.00
ATOM 1987	HA	PRO A 129	-2.001	11.953	-14.300	1.00	0.00
ATOM 1988	1HB	PRO A 129	-4.845	11.411	-13.641	1.00	0.00
ATOM 1989	2HB	PRO A 129	-4.127	11.970	-15.156	1.00	0.00
ATOM 1990	1HG	PRO A 129	-5.008	9.466	-14.905	1.00	0.00
ATOM 1991	2HG	PRO A 129	-3.529	9.830	-15.817	1.00	0.00
ATOM 1992	1HD	PRO A 129	-3.830	8.703	-13.062	1.00	0.00
ATOM 1993	2HD	PRO A 129	-2.661	8.282	-14.331	1.00	0.00
ATOM 1994	N	SER A 130	-2.997	13.620	-12.571	1.00	0.00
ATOM 1995	CA	SER A 130	-3.178	14.541	-11.455	1.00	0.00
ATOM 1996	C	SER A 130	-3.606	15.919	-11.950	1.00	0.00
ATOM 1997	O	SER A 130	-4.527	16.527	-11.404	1.00	0.00
ATOM 1998	CB	SER A 130	-1.885	14.656	-10.647	1.00	0.00



ATOM 1999	OG	SER A 130	-2.010	15.621	-9.616	1.00	0.00
ATOM 2000	H	SER A 130	-2.965	13.976	-13.484	1.00	0.00
ATOM 2001	HA	SER A 130	-3.954	14.143	-10.819	1.00	0.00
ATOM 2002	1HB	SER A 130	-1.655	13.700	-10.201	1.00	0.00
ATOM 2003	2HB	SER A 130	-1.078	14.950	-11.303	1.00	0.00
ATOM 2004	HG	SER A 130	-2.513	15.249	-8.888	1.00	0.00
ATOM 2005	N	SER A 131	-2.932	16.406	-12.986	1.00	0.00
ATOM 2006	CA	SER A 131	-3.244	17.712	-13.554	1.00	0.00
ATOM 2007	C	SER A 131	-3.116	17.689	-15.074	1.00	0.00
ATOM 2008	O	SER A 131	-4.011	18.140	-15.788	1.00	0.00
ATOM 2009	CB	SER A 131	-2.317	18.780	-12.969	1.00	0.00
ATOM 2010	OG	SER A 131	-1.781	18.364	-11.725	1.00	0.00
ATOM 2011	H	SER A 131	-2.208	15.874	-13.378	1.00	0.00
ATOM 2012	HA	SER A 131	-4.264	17.952	-13.294	1.00	0.00
ATOM 2013	1HB	SER A 131	-1.503	18.961	-13.654	1.00	0.00
ATOM 2014	2HB	SER A 131	-2.873	19.693	-12.822	1.00	0.00
ATOM 2015	HG	SER A 131	-2.176	18.880	-11.018	1.00	0.00
ATOM 2016	N	GLY A 132	-1.999	17.160	-15.561	1.00	0.00
ATOM 2017	CA	GLY A 132	-1.774	17.089	-16.993	1.00	0.00
ATOM 2018	C	GLY A 132	-0.774	18.119	-17.475	1.00	0.00
ATOM 2019	H	GLY A 132	-1.320	16.818	-14.943	1.00	0.00
ATOM 2020	1HA	GLY A 132	-1.407	16.103	-17.239	1.00	0.00
ATOM 2021	2HA	GLY A 132	-2.714	17.250	-17.501	1.00	0.00
TER 2022		GLY A 132					

ENDMDL

Three-Dimensional Structure Coordinate 5

ATOM 1	N	GLY A	1	10.752	24.108	-10.892	1.00	0.00
ATOM 2	CA	GLY A	1	10.615	22.643	-11.125	1.00	0.00
ATOM 3	C	GLY A	1	10.875	22.259	-12.568	1.00	0.00
ATOM 4	O	GLY A	1	11.694	22.882	-13.245	1.00	0.00
ATOM 5	1H	GLY A	1	11.421	24.518	-11.574	1.00	0.00
ATOM 6	2H	GLY A	1	11.103	24.286	-9.930	1.00	0.00
ATOM 7	3H	GLY A	1	9.829	24.575	-11.003	1.00	0.00
ATOM 8	1HA	GLY A	1	11.318	22.122	-10.493	1.00	0.00
ATOM 9	2HA	GLY A	1	9.614	22.340	-10.859	1.00	0.00
ATOM 10	N	SER A	2	10.178	21.231	-13.040	1.00	0.00
ATOM 11	CA	SER A	2	10.338	20.765	-14.413	1.00	0.00
ATOM 12	C	SER A	2	9.074	21.024	-15.227	1.00	0.00
ATOM 13	O	SER A	2	7.960	20.850	-14.733	1.00	0.00
ATOM 14	CB	SER A	2	10.672	19.272	-14.431	1.00	0.00
ATOM 15	OG	SER A	2	11.631	18.952	-13.437	1.00	0.00
ATOM 16	H	SER A	2	9.540	20.776	-12.452	1.00	0.00
ATOM 17	HA	SER A	2	11.156	21.312	-14.856	1.00	0.00
ATOM 18	1HB	SER A	2	9.774	18.702	-14.243	1.00	0.00
ATOM 19	2HB	SER A	2	11.072	19.006	-15.398	1.00	0.00
ATOM 20	HG	SER A	2	11.299	19.213	-12.575	1.00	0.00
ATOM 21	N	SER A	3	9.257	21.440	-16.477	1.00	0.00
ATOM 22	CA	SER A	3	8.135	21.724	-17.364	1.00	0.00
ATOM 23	C	SER A	3	7.310	22.898	-16.843	1.00	0.00
ATOM 24	O	SER A	3	7.435	24.021	-17.331	1.00	0.00
ATOM 25	CB	SER A	3	7.247	20.485	-17.514	1.00	0.00
ATOM 26	OG	SER A	3	7.596	19.746	-18.672	1.00	0.00
ATOM 27	H	SER A	3	10.170	21.559	-16.811	1.00	0.00

ATOM 28	HA	SER A	3	8.537	21.986	-18.330	1.00	0.00
ATOM 29	1HB	SER A	3	7.367	19.851	-16.649	1.00	0.00
ATOM 30	2HB	SER A	3	6.215	20.792	-17.596	1.00	0.00
ATOM 31	HG	SER A	3	7.582	20.324	-19.439	1.00	0.00
ATOM 32	N	GLY A	4	6.467	22.632	-15.850	1.00	0.00
ATOM 33	CA	GLY A	4	5.636	23.676	-15.281	1.00	0.00
ATOM 34	C	GLY A	4	4.273	23.756	-15.940	1.00	0.00
ATOM 35	O	GLY A	4	4.082	24.506	-16.899	1.00	0.00
ATOM 36	H	GLY A	4	6.409	21.717	-15.500	1.00	0.00
ATOM 37	1HA	GLY A	4	5.503	23.482	-14.227	1.00	0.00
ATOM 38	2HA	GLY A	4	6.138	24.625	-15.401	1.00	0.00
ATOM 39	N	SER A	5	3.323	22.981	-15.428	1.00	0.00
ATOM 40	CA	SER A	5	1.970	22.966	-15.974	1.00	0.00
ATOM 41	C	SER A	5	0.957	23.433	-14.933	1.00	0.00
ATOM 42	O	SER A	5	0.019	24.165	-15.251	1.00	0.00
ATOM 43	CB	SER A	5	1.608	21.561	-16.458	1.00	0.00
ATOM 44	OG	SER A	5	2.319	20.573	-15.733	1.00	0.00
ATOM 45	H	SER A	5	3.536	22.404	-14.664	1.00	0.00
ATOM 46	HA	SER A	5	1.944	23.644	-16.813	1.00	0.00
ATOM 47	1HB	SER A	5	0.550	21.397	-16.323	1.00	0.00
ATOM 48	2HB	SER A	5	1.856	21.469	-17.505	1.00	0.00
ATOM 49	HG	SER A	5	1.764	20.232	-15.027	1.00	0.00
ATOM 50	N	SER A	6	1.154	23.007	-13.690	1.00	0.00
ATOM 51	CA	SER A	6	0.257	23.382	-12.603	1.00	0.00
ATOM 52	C	SER A	6	0.233	24.895	-12.415	1.00	0.00
ATOM 53	O	SER A	6	0.822	25.638	-13.201	1.00	0.00
ATOM 54	CB	SER A	6	0.686	22.702	-11.302	1.00	0.00

ATOM 55	OG	SER A	6	1.876	23.278	-10.792	1.00	0.00
ATOM 56	H	SER A	6	1.919	22.425	-13.499	1.00	0.00
ATOM 57	HA	SER A	6	-0.737	23.048	-12.862	1.00	0.00
ATOM 58	1HB	SER A	6	-0.096	22.812	-10.565	1.00	0.00
ATOM 59	2HB	SER A	6	0.859	21.652	-11.488	1.00	0.00
ATOM 60	HG	SER A	6	1.855	23.262	-9.833	1.00	0.00
ATOM 61	N	GLY A	7	-0.450	25.348	-11.368	1.00	0.00
ATOM 62	CA	GLY A	7	-0.537	26.770	-11.097	1.00	0.00
ATOM 63	C	GLY A	7	-1.092	27.067	-9.718	1.00	0.00
ATOM 64	O	GLY A	7	-1.932	27.953	-9.558	1.00	0.00
ATOM 65	H	GLY A	7	-0.899	24.709	-10.775	1.00	0.00
ATOM 66	1HA	GLY A	7	0.451	27.201	-11.176	1.00	0.00
ATOM 67	2HA	GLY A	7	-1.176	27.228	-11.837	1.00	0.00
ATOM 68	N	SER A	8	-0.623	26.324	-8.720	1.00	0.00
ATOM 69	CA	SER A	8	-1.078	26.513	-7.348	1.00	0.00
ATOM 70	C	SER A	8	-0.154	25.803	-6.364	1.00	0.00
ATOM 71	O	SER A	8	0.633	26.440	-5.665	1.00	0.00
ATOM 72	CB	SER A	8	-2.508	25.996	-7.187	1.00	0.00
ATOM 73	OG	SER A	8	-2.843	25.839	-5.818	1.00	0.00
ATOM 74	H	SER A	8	0.045	25.634	-8.912	1.00	0.00
ATOM 75	HA	SER A	8	-1.062	27.571	-7.137	1.00	0.00
ATOM 76	1HB	SER A	8	-3.196	26.697	-7.633	1.00	0.00
ATOM 77	2HB	SER A	8	-2.601	25.039	-7.679	1.00	0.00
ATOM 78	HG	SER A	8	-3.003	26.700	-5.427	1.00	0.00
ATOM 79	N	SER A	9	-0.256	24.478	-6.316	1.00	0.00
ATOM 80	CA	SER A	9	0.570	23.680	-5.416	1.00	0.00
ATOM 81	C	SER A	9	1.371	22.639	-6.191	1.00	0.00

ATOM 82	O	SER A	9	1.316	22.587	-7.420	1.00	0.00
ATOM 83	CB	SER A	9	-0.303	22.991	-4.366	1.00	0.00
ATOM 84	OG	SER A	9	-1.163	23.918	-3.727	1.00	0.00
ATOM 85	H	SER A	9	-0.903	24.026	-6.897	1.00	0.00
ATOM 86	HA	SER A	9	1.257	24.348	-4.918	1.00	0.00
ATOM 87	1HB	SER A	9	-0.904	22.232	-4.843	1.00	0.00
ATOM 88	2HB	SER A	9	0.330	22.532	-3.620	1.00	0.00
ATOM 89	HG	SER A	9	-1.879	23.447	-3.296	1.00	0.00
ATOM 90	N	SER A	10	2.115	21.812	-5.464	1.00	0.00
ATOM 91	CA	SER A	10	2.928	20.771	-6.081	1.00	0.00
ATOM 92	C	SER A	10	2.612	19.406	-5.478	1.00	0.00
ATOM 93	O	SER A	10	3.341	18.913	-4.617	1.00	0.00
ATOM 94	CB	SER A	10	4.416	21.089	-5.911	1.00	0.00
ATOM 95	OG	SER A	10	5.006	21.447	-7.149	1.00	0.00
ATOM 96	H	SER A	10	2.117	21.905	-4.488	1.00	0.00
ATOM 97	HA	SER A	10	2.693	20.749	-7.135	1.00	0.00
ATOM 98	1HB	SER A	10	4.529	21.913	-5.222	1.00	0.00
ATOM 99	2HB	SER A	10	4.926	20.221	-5.521	1.00	0.00
ATOM 100	HG	SER A	10	4.625	22.272	-7.459	1.00	0.00
ATOM 101	N	SER A	11	1.522	18.800	-5.939	1.00	0.00
ATOM 102	CA	SER A	11	1.111	17.490	-5.446	1.00	0.00
ATOM 103	C	SER A	11	1.585	16.385	-6.384	1.00	0.00
ATOM 104	O	SER A	11	2.167	16.657	-7.434	1.00	0.00
ATOM 105	CB	SER A	11	-0.411	17.432	-5.299	1.00	0.00
ATOM 106	OG	SER A	11	-1.052	17.623	-6.549	1.00	0.00
ATOM 107	H	SER A	11	0.983	19.243	-6.626	1.00	0.00
ATOM 108	HA	SER A	11	1.564	17.343	-4.477	1.00	0.00

ATOM 109	1HB	SER A	11	-0.696	16.467	-4.906	1.00	0.00
ATOM 110	2HB	SER A	11	-0.735	18.207	-4.620	1.00	0.00
ATOM 111	N	GLN A	12	1.334	15.140	-6.000	1.00	0.00
ATOM 112	CA	GLN A	12	1.737	13.995	-6.808	1.00	0.00
ATOM 113	C	GLN A	12	0.899	12.766	-6.471	1.00	0.00
ATOM 114	O	GLN A	12	0.649	12.473	-5.301	1.00	0.00
ATOM 115	CB	GLN A	12	3.222	13.690	-6.598	1.00	0.00
ATOM 116	CG	GLN A	12	3.670	13.810	-5.149	1.00	0.00
ATOM 117	CD	GLN A	12	4.715	14.891	-4.948	1.00	0.00
ATOM 118	OE1	GLN A	12	4.385	16.066	-4.787	1.00	0.00
ATOM 119	NE2	GLN A	12	5.983	14.499	-4.958	1.00	0.00
ATOM 120	H	GLN A	12	0.866	14.985	-5.152	1.00	0.00
ATOM 121	HA	GLN A	12	1.576	14.250	-7.844	1.00	0.00
ATOM 122	1HB	GLN A	12	3.420	12.682	-6.931	1.00	0.00
ATOM 123	2HB	GLN A	12	3.805	14.377	-7.192	1.00	0.00
ATOM 124	1HG	GLN A	12	2.811	14.043	-4.538	1.00	0.00
ATOM 125	2HG	GLN A	12	4.088	12.864	-4.836	1.00	0.00
ATOM 126	1HE2	GLN A	12	6.172	13.547	-5.092	1.00	0.00
ATOM 127	2HE2	GLN A	12	6.679	15.177	-4.831	1.00	0.00
ATOM 128	N	HIS A	13	0.469	12.050	-7.505	1.00	0.00
ATOM 129	CA	HIS A	13	-0.340	10.852	-7.324	1.00	0.00
ATOM 130	C	HIS A	13	0.256	9.673	-8.088	1.00	0.00
ATOM 131	O	HIS A	13	0.222	9.638	-9.318	1.00	0.00
ATOM 132	CB	HIS A	13	-1.774	11.104	-7.795	1.00	0.00
ATOM 133	CG	HIS A	13	-2.509	12.114	-6.969	1.00	0.00
ATOM 134	ND1	HIS A	13	-3.742	11.868	-6.401	1.00	0.00
ATOM 135	CD2	HIS A	13	-2.180	13.379	-6.616	1.00	0.00

ATOM 136	CE1	HIS A	13	-4.138	12.939	-5.736	1.00	0.00
ATOM 137	NE2	HIS A	13	-3.208	13.869	-5.850	1.00	0.00
ATOM 138	H	HIS A	13	0.702	12.337	-8.414	1.00	0.00
ATOM 139	HA	HIS A	13	-0.353	10.615	-6.271	1.00	0.00
ATOM 140	1HB	HIS A	13	-1.753	11.461	-8.813	1.00	0.00
ATOM 141	2HB	HIS A	13	-2.326	10.176	-7.756	1.00	0.00
ATOM 142	HD1	HIS A	13	-4.251	11.033	-6.476	1.00	0.00
ATOM 143	HD2	HIS A	13	-1.276	13.905	-6.887	1.00	0.00
ATOM 144	HE1	HIS A	13	-5.065	13.036	-5.190	1.00	0.00
ATOM 145	HE2	HIS A	13	-3.213	14.731	-5.386	1.00	0.00
ATOM 146	N	PHE A	14	0.800	8.709	-7.352	1.00	0.00
ATOM 147	CA	PHE A	14	1.400	7.530	-7.963	1.00	0.00
ATOM 148	C	PHE A	14	0.460	6.333	-7.863	1.00	0.00
ATOM 149	O	PHE A	14	0.141	5.871	-6.769	1.00	0.00
ATOM 150	CB	PHE A	14	2.737	7.207	-7.293	1.00	0.00
ATOM 151	CG	PHE A	14	3.836	8.165	-7.654	1.00	0.00
ATOM 152	CD1	PHE A	14	4.519	8.037	-8.854	1.00	0.00
ATOM 153	CD2	PHE A	14	4.187	9.195	-6.795	1.00	0.00
ATOM 154	CE1	PHE A	14	5.530	8.916	-9.189	1.00	0.00
ATOM 155	CE2	PHE A	14	5.198	10.078	-7.125	1.00	0.00
ATOM 156	CZ	PHE A	14	5.870	9.938	-8.324	1.00	0.00
ATOM 157	H	PHE A	14	0.794	8.793	-6.375	1.00	0.00
ATOM 158	HA	PHE A	14	1.574	7.750	-9.006	1.00	0.00
ATOM 159	1HB	PHE A	14	2.611	7.237	-6.221	1.00	0.00
ATOM 160	2HB	PHE A	14	3.049	6.216	-7.586	1.00	0.00
ATOM 161	HD1	PHE A	14	4.253	7.239	-9.531	1.00	0.00
ATOM 162	HD2	PHE A	14	3.662	9.305	-5.858	1.00	0.00

ATOM 163	HE1	PHE	A	14	6.055	8.805	-10.126	1.00	0.00
ATOM 164	HE2	PHE	A	14	5.462	10.875	-6.447	1.00	0.00
ATOM 165	HZ	PHE	A	14	6.660	10.627	-8.584	1.00	0.00
ATOM 166	N	ASN	A	15	0.019	5.838	-9.014	1.00	0.00
ATOM 167	CA	ASN	A	15	-0.889	4.696	-9.058	1.00	0.00
ATOM 168	C	ASN	A	15	-0.277	3.480	-8.371	1.00	0.00
ATOM 169	O	ASN	A	15	0.779	2.994	-8.773	1.00	0.00
ATOM 170	CB	ASN	A	15	-1.238	4.353	-10.508	1.00	0.00
ATOM 171	CG	ASN	A	15	-2.706	4.018	-10.684	1.00	0.00
ATOM 172	OD1	ASN	A	15	-3.492	4.842	-11.151	1.00	0.00
ATOM 173	ND2	ASN	A	15	-3.084	2.801	-10.309	1.00	0.00
ATOM 174	H	ASN	A	15	0.307	6.251	-9.855	1.00	0.00
ATOM 175	HA	ASN	A	15	-1.792	4.971	-8.537	1.00	0.00
ATOM 176	1HB	ASN	A	15	-1.004	5.199	-11.137	1.00	0.00
ATOM 177	2HB	ASN	A	15	-0.652	3.503	-10.822	1.00	0.00
ATOM 178	1HD2	ASN	A	15	-2.404	2.197	-9.945	1.00	0.00
ATOM 179	2HD2	ASN	A	15	-4.028	2.557	-10.412	1.00	0.00
ATOM 180	N	LEU	A	16	-0.951	2.992	-7.335	1.00	0.00
ATOM 181	CA	LEU	A	16	-0.478	1.828	-6.594	1.00	0.00
ATOM 182	C	LEU	A	16	-1.197	0.567	-7.062	1.00	0.00
ATOM 183	O	LEU	A	16	-2.426	0.526	-7.110	1.00	0.00
ATOM 184	CB	LEU	A	16	-0.697	2.029	-5.094	1.00	0.00
ATOM 185	CG	LEU	A	16	0.018	1.021	-4.193	1.00	0.00
ATOM 186	CD1	LEU	A	16	1.527	1.133	-4.353	1.00	0.00
ATOM 187	CD2	LEU	A	16	-0.384	1.229	-2.740	1.00	0.00
ATOM 188	H	LEU	A	16	-1.789	3.421	-7.064	1.00	0.00
ATOM 189	HA	LEU	A	16	0.579	1.719	-6.785	1.00	0.00



ATOM 190	1HB	LEU	A	16	-0.355	3.020	-4.831	1.00	0.00
ATOM 191	2HB	LEU	A	16	-1.756	1.969	-4.894	1.00	0.00
ATOM 192	HG	LEU	A	16	-0.275	0.022	-4.481	1.00	0.00
ATOM 193	1HD1	LEU	A	16	1.945	0.151	-4.520	1.00	0.00
ATOM 194	2HD1	LEU	A	16	1.954	1.560	-3.458	1.00	0.00
ATOM 195	3HD1	LEU	A	16	1.754	1.768	-5.198	1.00	0.00
ATOM 196	1HD2	LEU	A	16	0.335	1.874	-2.257	1.00	0.00
ATOM 197	2HD2	LEU	A	16	-0.410	0.275	-2.234	1.00	0.00
ATOM 198	3HD2	LEU	A	16	-1.362	1.685	-2.699	1.00	0.00
ATOM 199	N	ASN	A	17	-0.426	-0.458	-7.415	1.00	0.00
ATOM 200	CA	ASN	A	17	-1.003	-1.712	-7.886	1.00	0.00
ATOM 201	C	ASN	A	17	-0.225	-2.917	-7.369	1.00	0.00
ATOM 202	O	ASN	A	17	1.007	-2.924	-7.370	1.00	0.00
ATOM 203	CB	ASN	A	17	-1.040	-1.734	-9.414	1.00	0.00
ATOM 204	CG	ASN	A	17	-1.990	-0.700	-9.985	1.00	0.00
ATOM 205	OD1	ASN	A	17	-1.649	0.478	-10.099	1.00	0.00
ATOM 206	ND2	ASN	A	17	-3.191	-1.136	-10.348	1.00	0.00
ATOM 207	H	ASN	A	17	0.548	-0.367	-7.361	1.00	0.00
ATOM 208	HA	ASN	A	17	-2.014	-1.767	-7.514	1.00	0.00
ATOM 209	1HB	ASN	A	17	-0.049	-1.535	-9.795	1.00	0.00
ATOM 210	2HB	ASN	A	17	-1.358	-2.712	-9.746	1.00	0.00
ATOM 211	1HD2	ASN	A	17	-3.393	-2.087	-10.228	1.00	0.00
ATOM 212	2HD2	ASN	A	17	-3.825	-0.488	-10.721	1.00	0.00
ATOM 213	N	PHE	A	18	-0.958	-3.938	-6.937	1.00	0.00
ATOM 214	CA	PHE	A	18	-0.354	-5.163	-6.425	1.00	0.00
ATOM 215	C	PHE	A	18	-1.432	-6.177	-6.057	1.00	0.00
ATOM 216	O	PHE	A	18	-2.210	-5.962	-5.127	1.00	0.00

ATOM 217	CB	PHE A	18	0.533	-4.865	-5.212	1.00	0.00
ATOM 218	CG	PHE A	18	-0.226	-4.400	-4.001	1.00	0.00
ATOM 219	CD1	PHE A	18	-0.469	-5.265	-2.945	1.00	0.00
ATOM 220	CD2	PHE A	18	-0.692	-3.099	-3.920	1.00	0.00
ATOM 221	CE1	PHE A	18	-1.165	-4.838	-1.830	1.00	0.00
ATOM 222	CE2	PHE A	18	-1.389	-2.667	-2.808	1.00	0.00
ATOM 223	CZ	PHE A	18	-1.626	-3.537	-1.762	1.00	0.00
ATOM 224	H	PHE A	18	-1.935	-3.869	-6.970	1.00	0.00
ATOM 225	HA	PHE A	18	0.258	-5.581	-7.212	1.00	0.00
ATOM 226	1HB	PHE A	18	1.070	-5.762	-4.941	1.00	0.00
ATOM 227	2HB	PHE A	18	1.244	-4.095	-5.476	1.00	0.00
ATOM 228	HD1	PHE A	18	-0.109	-6.282	-2.997	1.00	0.00
ATOM 229	HD2	PHE A	18	-0.507	-2.418	-4.737	1.00	0.00
ATOM 230	HE1	PHE A	18	-1.350	-5.520	-1.014	1.00	0.00
ATOM 231	HE2	PHE A	18	-1.747	-1.649	-2.757	1.00	0.00
ATOM 232	HZ	PHE A	18	-2.170	-3.202	-0.891	1.00	0.00
ATOM 233	N	THR A	19	-1.480	-7.276	-6.801	1.00	0.00
ATOM 234	CA	THR A	19	-2.471	-8.321	-6.565	1.00	0.00
ATOM 235	C	THR A	19	-2.165	-9.098	-5.290	1.00	0.00
ATOM 236	O	THR A	19	-1.009	-9.397	-4.992	1.00	0.00
ATOM 237	CB	THR A	19	-2.523	-9.278	-7.757	1.00	0.00
ATOM 238	OG1	THR A	19	-2.871	-8.584	-8.943	1.00	0.00
ATOM 239	CG2	THR A	19	-3.517	-10.406	-7.579	1.00	0.00
ATOM 240	H	THR A	19	-0.838	-7.385	-7.534	1.00	0.00
ATOM 241	HA	THR A	19	-3.433	-7.844	-6.458	1.00	0.00
ATOM 242	HB	THR A	19	-1.546	-9.718	-7.896	1.00	0.00
ATOM 243	HG1	THR A	19	-2.489	-9.034	-9.700	1.00	0.00

ATOM 244	1HG2	THR	A	19	-3.017	-11.353	-7.716	1.00	0.00
ATOM 245	2HG2	THR	A	19	-4.309	-10.308	-8.307	1.00	0.00
ATOM 246	3HG2	THR	A	19	-3.937	-10.363	-6.584	1.00	0.00
ATOM 247	N	ILE	A	20	-3.215	-9.431	-4.544	1.00	0.00
ATOM 248	CA	ILE	A	20	-3.069	-10.183	-3.305	1.00	0.00
ATOM 249	C	ILE	A	20	-3.550	-11.619	-3.485	1.00	0.00
ATOM 250	O	ILE	A	20	-4.552	-11.869	-4.155	1.00	0.00
ATOM 251	CB	ILE	A	20	-3.855	-9.531	-2.151	1.00	0.00
ATOM 252	CG1	ILE	A	20	-3.522	-8.041	-2.053	1.00	0.00
ATOM 253	CG2	ILE	A	20	-3.549	-10.234	-0.837	1.00	0.00
ATOM 254	CD1	ILE	A	20	-4.512	-7.255	-1.221	1.00	0.00
ATOM 255	H	ILE	A	20	-4.111	-9.168	-4.841	1.00	0.00
ATOM 256	HA	ILE	A	20	-2.022	-10.193	-3.041	1.00	0.00
ATOM 257	HB	ILE	A	20	-4.909	-9.644	-2.354	1.00	0.00
ATOM 258	1HG1	ILE	A	20	-2.547	-7.926	-1.604	1.00	0.00
ATOM 259	2HG1	ILE	A	20	-3.508	-7.615	-3.046	1.00	0.00
ATOM 260	1HG2	ILE	A	20	-2.585	-9.913	-0.472	1.00	0.00
ATOM 261	2HG2	ILE	A	20	-3.536	-11.302	-0.995	1.00	0.00
ATOM 262	3HG2	ILE	A	20	-4.310	-9.988	-0.111	1.00	0.00
ATOM 263	1HD1	ILE	A	20	-4.808	-7.842	-0.365	1.00	0.00
ATOM 264	2HD1	ILE	A	20	-5.382	-7.024	-1.819	1.00	0.00
ATOM 265	3HD1	ILE	A	20	-4.051	-6.337	-0.887	1.00	0.00
ATOM 266	N	THR	A	21	-2.830	-12.559	-2.885	1.00	0.00
ATOM 267	CA	THR	A	21	-3.185	-13.970	-2.984	1.00	0.00
ATOM 268	C	THR	A	21	-3.875	-14.449	-1.711	1.00	0.00
ATOM 269	O	THR	A	21	-3.656	-15.571	-1.257	1.00	0.00
ATOM 270	CB	THR	A	21	-1.936	-14.812	-3.250	1.00	0.00

ATOM 271	OG1	THR	A	21	-1.032	-14.727	-2.163	1.00	0.00
ATOM 272	CG2	THR	A	21	-1.192	-14.395	-4.500	1.00	0.00
ATOM 273	H	THR	A	21	-2.040	-12.300	-2.367	1.00	0.00
ATOM 274	HA	THR	A	21	-3.866	-14.083	-3.813	1.00	0.00
ATOM 275	HB	THR	A	21	-2.229	-15.845	-3.368	1.00	0.00
ATOM 276	HG1	THR	A	21	-0.682	-13.834	-2.107	1.00	0.00
ATOM 277	1HG2	THR	A	21	-0.974	-15.268	-5.098	1.00	0.00
ATOM 278	2HG2	THR	A	21	-0.268	-13.908	-4.224	1.00	0.00
ATOM 279	3HG2	THR	A	21	-1.803	-13.711	-5.072	1.00	0.00
ATOM 280	N	ASN	A	22	-4.712	-13.588	-1.140	1.00	0.00
ATOM 281	CA	ASN	A	22	-5.438	-13.920	0.080	1.00	0.00
ATOM 282	C	ASN	A	22	-6.759	-13.162	0.148	1.00	0.00
ATOM 283	O	ASN	A	22	-7.194	-12.746	1.222	1.00	0.00
ATOM 284	CB	ASN	A	22	-4.587	-13.598	1.309	1.00	0.00
ATOM 285	CG	ASN	A	22	-5.072	-14.315	2.554	1.00	0.00
ATOM 286	OD1	ASN	A	22	-6.227	-14.733	2.634	1.00	0.00
ATOM 287	ND2	ASN	A	22	-4.188	-14.461	3.534	1.00	0.00
ATOM 288	H	ASN	A	22	-4.845	-12.708	-1.550	1.00	0.00
ATOM 289	HA	ASN	A	22	-5.645	-14.980	0.064	1.00	0.00
ATOM 290	1HB	ASN	A	22	-3.566	-13.895	1.120	1.00	0.00
ATOM 291	2HB	ASN	A	22	-4.620	-12.533	1.493	1.00	0.00
ATOM 292	1HD2	ASN	A	22	-3.286	-14.103	3.401	1.00	0.00
ATOM 293	2HD2	ASN	A	22	-4.475	-14.921	4.351	1.00	0.00
ATOM 294	N	LEU	A	23	-7.393	-12.984	-1.007	1.00	0.00
ATOM 295	CA	LEU	A	23	-8.664	-12.273	-1.080	1.00	0.00
ATOM 296	C	LEU	A	23	-9.490	-12.755	-2.273	1.00	0.00
ATOM 297	O	LEU	A	23	-9.246	-12.348	-3.409	1.00	0.00

ATOM 298	CB	LEU	A	23	-8.421	-10.766	-1.193	1.00	0.00
ATOM 299	CG	LEU	A	23	-9.533	-9.887	-0.617	1.00	0.00
ATOM 300	CD1	LEU	A	23	-10.795	-10.005	-1.456	1.00	0.00
ATOM 301	CD2	LEU	A	23	-9.815	-10.266	0.830	1.00	0.00
ATOM 302	H	LEU	A	23	-6.995	-13.337	-1.830	1.00	0.00
ATOM 303	HA	LEU	A	23	-9.209	-12.473	-0.171	1.00	0.00
ATOM 304	1HB	LEU	A	23	-7.502	-10.533	-0.677	1.00	0.00
ATOM 305	2HB	LEU	A	23	-8.302	-10.519	-2.236	1.00	0.00
ATOM 306	HG	LEU	A	23	-9.214	-8.856	-0.638	1.00	0.00
ATOM 307	1HD1	LEU	A	23	-11.462	-10.724	-1.004	1.00	0.00
ATOM 308	2HD1	LEU	A	23	-10.536	-10.331	-2.453	1.00	0.00
ATOM 309	3HD1	LEU	A	23	-11.285	-9.043	-1.507	1.00	0.00
ATOM 310	1HD2	LEU	A	23	-10.305	-9.443	1.328	1.00	0.00
ATOM 311	2HD2	LEU	A	23	-8.885	-10.488	1.332	1.00	0.00
ATOM 312	3HD2	LEU	A	23	-10.455	-11.135	0.856	1.00	0.00
ATOM 313	N	PRO	A	24	-10.483	-13.631	-2.032	1.00	0.00
ATOM 314	CA	PRO	A	24	-11.339	-14.160	-3.099	1.00	0.00
ATOM 315	C	PRO	A	24	-12.257	-13.094	-3.687	1.00	0.00
ATOM 316	O	PRO	A	24	-12.792	-12.253	-2.964	1.00	0.00
ATOM 317	CB	PRO	A	24	-12.161	-15.244	-2.395	1.00	0.00
ATOM 318	CG	PRO	A	24	-12.173	-14.840	-0.962	1.00	0.00
ATOM 319	CD	PRO	A	24	-10.850	-14.172	-0.710	1.00	0.00
ATOM 320	HA	PRO	A	24	-10.755	-14.606	-3.891	1.00	0.00
ATOM 321	1HB	PRO	A	24	-13.159	-15.268	-2.808	1.00	0.00
ATOM 322	2HB	PRO	A	24	-11.686	-16.204	-2.530	1.00	0.00
ATOM 323	1HG	PRO	A	24	-12.983	-14.148	-0.782	1.00	0.00
ATOM 324	2HG	PRO	A	24	-12.277	-15.713	-0.335	1.00	0.00

ATOM 325	1HD	PRO	A	24	-10.959	-13.379	0.014	1.00	0.00
ATOM 326	2HD	PRO	A	24	-10.120	-14.895	-0.374	1.00	0.00
ATOM 327	N	TYR	A	25	-12.433	-13.134	-5.004	1.00	0.00
ATOM 328	CA	TYR	A	25	-13.286	-12.170	-5.691	1.00	0.00
ATOM 329	C	TYR	A	25	-14.666	-12.761	-5.963	1.00	0.00
ATOM 330	O	TYR	A	25	-14.817	-13.648	-6.802	1.00	0.00
ATOM 331	CB	TYR	A	25	-12.637	-11.732	-7.004	1.00	0.00
ATOM 332	CG	TYR	A	25	-13.165	-10.417	-7.533	1.00	0.00
ATOM 333	CD1	TYR	A	25	-14.456	-10.317	-8.036	1.00	0.00
ATOM 334	CD2	TYR	A	25	-12.372	-9.277	-7.530	1.00	0.00
ATOM 335	CE1	TYR	A	25	-14.942	-9.117	-8.520	1.00	0.00
ATOM 336	CE2	TYR	A	25	-12.851	-8.073	-8.012	1.00	0.00
ATOM 337	CZ	TYR	A	25	-14.136	-7.999	-8.506	1.00	0.00
ATOM 338	OH	TYR	A	25	-14.616	-6.802	-8.987	1.00	0.00
ATOM 339	H	TYR	A	25	-11.980	-13.828	-5.527	1.00	0.00
ATOM 340	HA	TYR	A	25	-13.397	-11.309	-5.049	1.00	0.00
ATOM 341	1HB	TYR	A	25	-11.574	-11.625	-6.855	1.00	0.00
ATOM 342	2HB	TYR	A	25	-12.816	-12.487	-7.755	1.00	0.00
ATOM 343	HD1	TYR	A	25	-15.086	-11.194	-8.045	1.00	0.00
ATOM 344	HD2	TYR	A	25	-11.366	-9.339	-7.143	1.00	0.00
ATOM 345	HE1	TYR	A	25	-15.950	-9.059	-8.906	1.00	0.00
ATOM 346	HE2	TYR	A	25	-12.219	-7.197	-8.000	1.00	0.00
ATOM 347	HH	TYR	A	25	-15.345	-6.506	-8.438	1.00	0.00
ATOM 348	N	SER	A	26	-15.669	-12.262	-5.247	1.00	0.00
ATOM 349	CA	SER	A	26	-17.036	-12.740	-5.412	1.00	0.00
ATOM 350	C	SER	A	26	-17.988	-11.583	-5.699	1.00	0.00
ATOM 351	O	SER	A	26	-17.555	-10.458	-5.953	1.00	0.00

ATOM 352	CB	SER A	26	-17.491	-13.490	-4.158	1.00	0.00
ATOM 353	OG	SER A	26	-18.275	-14.621	-4.496	1.00	0.00
ATOM 354	H	SER A	26	-15.485	-11.555	-4.594	1.00	0.00
ATOM 355	HA	SER A	26	-17.051	-13.419	-6.252	1.00	0.00
ATOM 356	1HB	SER A	26	-16.623	-13.822	-3.606	1.00	0.00
ATOM 357	2HB	SER A	26	-18.080	-12.830	-3.540	1.00	0.00
ATOM 358	HG	SER A	26	-18.048	-15.352	-3.918	1.00	0.00
ATOM 359	N	GLN A	27	-19.286	-11.866	-5.656	1.00	0.00
ATOM 360	CA	GLN A	27	-20.298	-10.848	-5.911	1.00	0.00
ATOM 361	C	GLN A	27	-20.254	-9.756	-4.847	1.00	0.00
ATOM 362	O	GLN A	27	-20.538	-8.591	-5.125	1.00	0.00
ATOM 363	CB	GLN A	27	-21.690	-11.482	-5.949	1.00	0.00
ATOM 364	CG	GLN A	27	-21.803	-12.641	-6.928	1.00	0.00
ATOM 365	CD	GLN A	27	-22.964	-12.482	-7.890	1.00	0.00
ATOM 366	OE1	GLN A	27	-22.846	-11.820	-8.920	1.00	0.00
ATOM 367	NE2	GLN A	27	-24.096	-13.093	-7.557	1.00	0.00
ATOM 368	H	GLN A	27	-19.570	-12.780	-5.447	1.00	0.00
ATOM 369	HA	GLN A	27	-20.088	-10.405	-6.872	1.00	0.00
ATOM 370	1HB	GLN A	27	-21.934	-11.847	-4.963	1.00	0.00
ATOM 371	2HB	GLN A	27	-22.409	-10.728	-6.232	1.00	0.00
ATOM 372	1HG	GLN A	27	-20.889	-12.702	-7.499	1.00	0.00
ATOM 373	2HG	GLN A	27	-21.940	-13.555	-6.368	1.00	0.00
ATOM 374	1HE2	GLN A	27	-24.117	-13.604	-6.721	1.00	0.00
ATOM 375	2HE2	GLN A	27	-24.863	-13.007	-8.161	1.00	0.00
ATOM 376	N	ASP A	28	-19.894	-10.140	-3.626	1.00	0.00
ATOM 377	CA	ASP A	28	-19.812	-9.194	-2.520	1.00	0.00
ATOM 378	C	ASP A	28	-18.803	-8.090	-2.824	1.00	0.00

ATOM 379	O	ASP	A	28	-19.071	-6.910	-2.595	1.00	0.00
ATOM 380	CB	ASP	A	28	-19.420	-9.917	-1.229	1.00	0.00
ATOM 381	CG	ASP	A	28	-20.522	-10.824	-0.718	1.00	0.00
ATOM 382	OD1	ASP	A	28	-21.338	-11.290	-1.541	1.00	0.00
ATOM 383	OD2	ASP	A	28	-20.569	-11.068	0.506	1.00	0.00
ATOM 384	H	ASP	A	28	-19.679	-11.083	-3.466	1.00	0.00
ATOM 385	HA	ASP	A	28	-20.786	-8.749	-2.390	1.00	0.00
ATOM 386	1HB	ASP	A	28	-18.542	-10.518	-1.414	1.00	0.00
ATOM 387	2HB	ASP	A	28	-19.197	-9.185	-0.467	1.00	0.00
ATOM 388	N	ILE	A	29	-17.645	-8.481	-3.344	1.00	0.00
ATOM 389	CA	ILE	A	29	-16.597	-7.525	-3.682	1.00	0.00
ATOM 390	C	ILE	A	29	-17.023	-6.614	-4.831	1.00	0.00
ATOM 391	O	ILE	A	29	-16.389	-5.591	-5.089	1.00	0.00
ATOM 392	CB	ILE	A	29	-15.287	-8.241	-4.066	1.00	0.00
ATOM 393	CG1	ILE	A	29	-14.911	-9.271	-3.000	1.00	0.00
ATOM 394	CG2	ILE	A	29	-14.164	-7.230	-4.251	1.00	0.00
ATOM 395	CD1	ILE	A	29	-14.769	-8.682	-1.612	1.00	0.00
ATOM 396	H	ILE	A	29	-17.491	-9.436	-3.505	1.00	0.00
ATOM 397	HA	ILE	A	29	-16.406	-6.919	-2.808	1.00	0.00
ATOM 398	HB	ILE	A	29	-15.441	-8.746	-5.007	1.00	0.00
ATOM 399	1HG1	ILE	A	29	-15.675	-10.033	-2.959	1.00	0.00
ATOM 400	2HG1	ILE	A	29	-13.969	-9.727	-3.265	1.00	0.00
ATOM 401	1HG2	ILE	A	29	-14.155	-6.545	-3.417	1.00	0.00
ATOM 402	2HG2	ILE	A	29	-14.323	-6.680	-5.167	1.00	0.00
ATOM 403	3HG2	ILE	A	29	-13.218	-7.749	-4.301	1.00	0.00
ATOM 404	1HD1	ILE	A	29	-14.198	-9.356	-0.992	1.00	0.00
ATOM 405	2HD1	ILE	A	29	-15.748	-8.538	-1.181	1.00	0.00



ATOM 406	3HD1	ILE	A	29	-14.260	-7.732	-1.676	1.00	0.00
ATOM 407	N	ALA	A	30	-18.098	-6.988	-5.521	1.00	0.00
ATOM 408	CA	ALA	A	30	-18.599	-6.197	-6.639	1.00	0.00
ATOM 409	C	ALA	A	30	-19.604	-5.149	-6.169	1.00	0.00
ATOM 410	O	ALA	A	30	-19.833	-4.147	-6.848	1.00	0.00
ATOM 411	CB	ALA	A	30	-19.232	-7.105	-7.682	1.00	0.00
ATOM 412	H	ALA	A	30	-18.564	-7.812	-5.274	1.00	0.00
ATOM 413	HA	ALA	A	30	-17.759	-5.695	-7.095	1.00	0.00
ATOM 414	1HB	ALA	A	30	-20.290	-7.200	-7.484	1.00	0.00
ATOM 415	2HB	ALA	A	30	-18.769	-8.080	-7.640	1.00	0.00
ATOM 416	3HB	ALA	A	30	-19.088	-6.680	-8.665	1.00	0.00
ATOM 417	N	GLN	A	31	-20.204	-5.383	-5.004	1.00	0.00
ATOM 418	CA	GLN	A	31	-21.185	-4.457	-4.448	1.00	0.00
ATOM 419	C	GLN	A	31	-20.686	-3.856	-3.133	1.00	0.00
ATOM 420	O	GLN	A	31	-20.635	-4.543	-2.112	1.00	0.00
ATOM 421	CB	GLN	A	31	-22.517	-5.172	-4.220	1.00	0.00
ATOM 422	CG	GLN	A	31	-23.475	-5.062	-5.395	1.00	0.00
ATOM 423	CD	GLN	A	31	-24.439	-3.899	-5.255	1.00	0.00
ATOM 424	OE1	GLN	A	31	-25.628	-4.091	-5.000	1.00	0.00
ATOM 425	NE2	GLN	A	31	-23.928	-2.685	-5.421	1.00	0.00
ATOM 426	H	GLN	A	31	-19.983	-6.197	-4.507	1.00	0.00
ATOM 427	HA	GLN	A	31	-21.332	-3.662	-5.163	1.00	0.00
ATOM 428	1HB	GLN	A	31	-22.325	-6.219	-4.038	1.00	0.00
ATOM 429	2HB	GLN	A	31	-22.997	-4.747	-3.351	1.00	0.00
ATOM 430	1HG	GLN	A	31	-22.902	-4.926	-6.300	1.00	0.00
ATOM 431	2HG	GLN	A	31	-24.046	-5.977	-5.465	1.00	0.00
ATOM 432	1HE2	GLN	A	31	-22.972	-2.608	-5.623	1.00	0.00

ATOM 433	2HE2	GLN	A	31	-24.529	-1.915	-5.336	1.00	0.00
ATOM 434	N	PRO	A	32	-20.309	-2.564	-3.137	1.00	0.00
ATOM 435	CA	PRO	A	32	-19.816	-1.884	-1.935	1.00	0.00
ATOM 436	C	PRO	A	32	-20.772	-2.023	-0.755	1.00	0.00
ATOM 437	O	PRO	A	32	-20.358	-1.965	0.403	1.00	0.00
ATOM 438	CB	PRO	A	32	-19.710	-0.420	-2.368	1.00	0.00
ATOM 439	CG	PRO	A	32	-19.546	-0.473	-3.847	1.00	0.00
ATOM 440	CD	PRO	A	32	-20.334	-1.667	-4.308	1.00	0.00
ATOM 441	HA	PRO	A	32	-18.840	-2.249	-1.648	1.00	0.00
ATOM 442	1HB	PRO	A	32	-20.611	0.106	-2.087	1.00	0.00
ATOM 443	2HB	PRO	A	32	-18.856	0.038	-1.893	1.00	0.00
ATOM 444	1HG	PRO	A	32	-19.937	0.431	-4.292	1.00	0.00
ATOM 445	2HG	PRO	A	32	-18.502	-0.594	-4.097	1.00	0.00
ATOM 446	1HD	PRO	A	32	-21.347	-1.379	-4.552	1.00	0.00
ATOM 447	2HD	PRO	A	32	-19.857	-2.129	-5.158	1.00	0.00
ATOM 448	N	SER	A	33	-22.054	-2.204	-1.056	1.00	0.00
ATOM 449	CA	SER	A	33	-23.070	-2.349	-0.020	1.00	0.00
ATOM 450	C	SER	A	33	-22.758	-3.530	0.894	1.00	0.00
ATOM 451	O	SER	A	33	-23.107	-3.523	2.074	1.00	0.00
ATOM 452	CB	SER	A	33	-24.451	-2.531	-0.653	1.00	0.00
ATOM 453	OG	SER	A	33	-25.479	-2.367	0.308	1.00	0.00
ATOM 454	H	SER	A	33	-22.324	-2.240	-1.997	1.00	0.00
ATOM 455	HA	SER	A	33	-23.073	-1.445	0.570	1.00	0.00
ATOM 456	1HB	SER	A	33	-24.586	-1.798	-1.435	1.00	0.00
ATOM 457	2HB	SER	A	33	-24.524	-3.523	-1.074	1.00	0.00
ATOM 458	HG	SER	A	33	-26.001	-3.171	0.359	1.00	0.00
ATOM 459	N	THR	A	34	-22.099	-4.543	0.340	1.00	0.00

ATOM 460	CA	THR A	34	-21.742	-5.731	1.107	1.00	0.00
ATOM 461	C	THR A	34	-20.603	-5.434	2.076	1.00	0.00
ATOM 462	O	THR A	34	-19.935	-4.405	1.969	1.00	0.00
ATOM 463	CB	THR A	34	-21.341	-6.871	0.168	1.00	0.00
ATOM 464	OG1	THR A	34	-20.026	-6.677	-0.322	1.00	0.00
ATOM 465	CG2	THR A	34	-22.259	-7.017	-1.027	1.00	0.00
ATOM 466	H	THR A	34	-21.849	-4.492	-0.606	1.00	0.00
ATOM 467	HA	THR A	34	-22.611	-6.034	1.673	1.00	0.00
ATOM 468	HB	THR A	34	-21.363	-7.801	0.718	1.00	0.00
ATOM 469	HG1	THR A	34	-19.981	-5.842	-0.795	1.00	0.00
ATOM 470	1HG2	THR A	34	-21.869	-6.442	-1.853	1.00	0.00
ATOM 471	2HG2	THR A	34	-23.244	-6.655	-0.770	1.00	0.00
ATOM 472	3HG2	THR A	34	-22.321	-8.057	-1.309	1.00	0.00
ATOM 473	N	THR A	35	-20.386	-6.342	3.023	1.00	0.00
ATOM 474	CA	THR A	35	-19.328	-6.178	4.013	1.00	0.00
ATOM 475	C	THR A	35	-17.985	-6.641	3.457	1.00	0.00
ATOM 476	O	THR A	35	-16.940	-6.078	3.780	1.00	0.00
ATOM 477	CB	THR A	35	-19.664	-6.961	5.283	1.00	0.00
ATOM 478	OG1	THR A	35	-20.918	-6.558	5.803	1.00	0.00
ATOM 479	CG2	THR A	35	-18.635	-6.793	6.380	1.00	0.00
ATOM 480	H	THR A	35	-20.952	-7.141	3.056	1.00	0.00
ATOM 481	HA	THR A	35	-19.260	-5.128	4.255	1.00	0.00
ATOM 482	HB	THR A	35	-19.720	-8.013	5.040	1.00	0.00
ATOM 483	HG1	THR A	35	-21.543	-7.283	5.731	1.00	0.00
ATOM 484	1HG2	THR A	35	-18.499	-7.732	6.894	1.00	0.00
ATOM 485	2HG2	THR A	35	-18.976	-6.044	7.080	1.00	0.00
ATOM 486	3HG2	THR A	35	-17.696	-6.480	5.948	1.00	0.00

ATOM 487	N	LYS A	36	-18.021	-7.674	2.619	1.00	0.00
ATOM 488	CA	LYS A	36	-16.807	-8.218	2.017	1.00	0.00
ATOM 489	C	LYS A	36	-16.010	-7.127	1.307	1.00	0.00
ATOM 490	O	LYS A	36	-14.781	-7.169	1.265	1.00	0.00
ATOM 491	CB	LYS A	36	-17.159	-9.332	1.030	1.00	0.00
ATOM 492	CG	LYS A	36	-16.110	-10.430	0.952	1.00	0.00
ATOM 493	CD	LYS A	36	-16.729	-11.809	1.121	1.00	0.00
ATOM 494	CE	LYS A	36	-15.738	-12.793	1.722	1.00	0.00
ATOM 495	NZ	LYS A	36	-16.059	-14.199	1.353	1.00	0.00
ATOM 496	H	LYS A	36	-18.885	-8.082	2.400	1.00	0.00
ATOM 497	HA	LYS A	36	-16.200	-8.630	2.808	1.00	0.00
ATOM 498	1HB	LYS A	36	-18.097	-9.777	1.328	1.00	0.00
ATOM 499	2HB	LYS A	36	-17.273	-8.902	0.046	1.00	0.00
ATOM 500	1HG	LYS A	36	-15.623	-10.382	-0.009	1.00	0.00
ATOM 501	2HG	LYS A	36	-15.382	-10.274	1.735	1.00	0.00
ATOM 502	1HD	LYS A	36	-17.585	-11.732	1.774	1.00	0.00
ATOM 503	2HD	LYS A	36	-17.042	-12.172	0.153	1.00	0.00
ATOM 504	1HE	LYS A	36	-14.749	-12.554	1.364	1.00	0.00
ATOM 505	2HE	LYS A	36	-15.764	-12.698	2.798	1.00	0.00
ATOM 506	1HZ	LYS A	36	-17.089	-14.325	1.282	1.00	0.00
ATOM 507	2HZ	LYS A	36	-15.690	-14.851	2.074	1.00	0.00
ATOM 508	3HZ	LYS A	36	-15.628	-14.436	0.436	1.00	0.00
ATOM 509	N	TYR A	37	-16.720	-6.151	0.750	1.00	0.00
ATOM 510	CA	TYR A	37	-16.080	-5.049	0.042	1.00	0.00
ATOM 511	C	TYR A	37	-15.430	-4.076	1.022	1.00	0.00
ATOM 512	O	TYR A	37	-14.235	-3.795	0.933	1.00	0.00
ATOM 513	CB	TYR A	37	-17.102	-4.311	-0.825	1.00	0.00

ATOM 514	CG	TYR A	37	-16.521	-3.144	-1.591	1.00	0.00
ATOM 515	CD1	TYR A	37	-16.029	-3.311	-2.879	1.00	0.00
ATOM 516	CD2	TYR A	37	-16.467	-1.875	-1.027	1.00	0.00
ATOM 517	CE1	TYR A	37	-15.499	-2.247	-3.584	1.00	0.00
ATOM 518	CE2	TYR A	37	-15.938	-0.806	-1.726	1.00	0.00
ATOM 519	CZ	TYR A	37	-15.456	-0.997	-3.003	1.00	0.00
ATOM 520	OH	TYR A	37	-14.929	0.065	-3.702	1.00	0.00
ATOM 521	H	TYR A	37	-17.698	-6.173	0.817	1.00	0.00
ATOM 522	HA	TYR A	37	-15.314	-5.465	-0.595	1.00	0.00
ATOM 523	1HB	TYR A	37	-17.520	-5.002	-1.541	1.00	0.00
ATOM 524	2HB	TYR A	37	-17.893	-3.935	-0.193	1.00	0.00
ATOM 525	HD1	TYR A	37	-16.064	-4.290	-3.330	1.00	0.00
ATOM 526	HD2	TYR A	37	-16.845	-1.729	-0.026	1.00	0.00
ATOM 527	HE1	TYR A	37	-15.122	-2.397	-4.584	1.00	0.00
ATOM 528	HE2	TYR A	37	-15.906	0.173	-1.270	1.00	0.00
ATOM 529	HH	TYR A	37	-14.271	0.508	-3.162	1.00	0.00
ATOM 530	N	GLN A	38	-16.226	-3.565	1.954	1.00	0.00
ATOM 531	CA	GLN A	38	-15.732	-2.622	2.950	1.00	0.00
ATOM 532	C	GLN A	38	-14.653	-3.257	3.821	1.00	0.00
ATOM 533	O	GLN A	38	-13.670	-2.608	4.179	1.00	0.00
ATOM 534	CB	GLN A	38	-16.883	-2.124	3.827	1.00	0.00
ATOM 535	CG	GLN A	38	-17.727	-1.045	3.168	1.00	0.00
ATOM 536	CD	GLN A	38	-19.178	-1.091	3.607	1.00	0.00
ATOM 537	OE1	GLN A	38	-19.583	-1.980	4.357	1.00	0.00
ATOM 538	NE2	GLN A	38	-19.968	-0.132	3.140	1.00	0.00
ATOM 539	H	GLN A	38	-17.170	-3.827	1.973	1.00	0.00
ATOM 540	HA	GLN A	38	-15.304	-1.780	2.424	1.00	0.00

ATOM 541	1HB	GLN	A	38	-17.525	-2.958	4.064	1.00	0.00
ATOM 542	2HB	GLN	A	38	-16.474	-1.723	4.742	1.00	0.00
ATOM 543	1HG	GLN	A	38	-17.320	-0.080	3.426	1.00	0.00
ATOM 544	2HG	GLN	A	38	-17.686	-1.178	2.097	1.00	0.00
ATOM 545	1HE2	GLN	A	38	-19.576	0.543	2.547	1.00	0.00
ATOM 546	2HE2	GLN	A	38	-20.911	-0.137	3.408	1.00	0.00
ATOM 547	N	GLN	A	39	-14.844	-4.527	4.164	1.00	0.00
ATOM 548	CA	GLN	A	39	-13.887	-5.248	4.998	1.00	0.00
ATOM 549	C	GLN	A	39	-12.477	-5.171	4.419	1.00	0.00
ATOM 550	O	GLN	A	39	-11.556	-4.672	5.065	1.00	0.00
ATOM 551	CB	GLN	A	39	-14.310	-6.712	5.145	1.00	0.00
ATOM 552	CG	GLN	A	39	-15.025	-7.011	6.453	1.00	0.00
ATOM 553	CD	GLN	A	39	-14.167	-7.805	7.419	1.00	0.00
ATOM 554	OE1	GLN	A	39	-13.322	-7.248	8.118	1.00	0.00
ATOM 555	NE2	GLN	A	39	-14.382	-9.115	7.461	1.00	0.00
ATOM 556	H	GLN	A	39	-15.648	-4.990	3.850	1.00	0.00
ATOM 557	HA	GLN	A	39	-13.886	-4.786	5.974	1.00	0.00
ATOM 558	1HB	GLN	A	39	-14.972	-6.967	4.331	1.00	0.00
ATOM 559	2HB	GLN	A	39	-13.431	-7.338	5.090	1.00	0.00
ATOM 560	1HG	GLN	A	39	-15.297	-6.077	6.921	1.00	0.00
ATOM 561	2HG	GLN	A	39	-15.919	-7.578	6.238	1.00	0.00
ATOM 562	1HE2	GLN	A	39	-15.071	-9.490	6.875	1.00	0.00
ATOM 563	2HE2	GLN	A	39	-13.841	-9.652	8.077	1.00	0.00
ATOM 564	N	THR	A	40	-12.314	-5.671	3.199	1.00	0.00
ATOM 565	CA	THR	A	40	-11.014	-5.663	2.536	1.00	0.00
ATOM 566	C	THR	A	40	-10.564	-4.240	2.222	1.00	0.00
ATOM 567	O	THR	A	40	-9.394	-3.899	2.388	1.00	0.00

ATOM 568	CB	THR A	40	-11.071	-6.486	1.248	1.00	0.00
ATOM 569	OG1	THR A	40	-11.739	-7.716	1.467	1.00	0.00
ATOM 570	CG2	THR A	40	-9.705	-6.800	0.679	1.00	0.00
ATOM 571	H	THR A	40	-13.086	-6.060	2.734	1.00	0.00
ATOM 572	HA	THR A	40	-10.299	-6.113	3.207	1.00	0.00
ATOM 573	HB	THR A	40	-11.620	-5.930	0.501	1.00	0.00
ATOM 574	HG1	THR A	40	-11.434	-8.106	2.289	1.00	0.00
ATOM 575	1HG2	THR A	40	-9.026	-5.989	0.902	1.00	0.00
ATOM 576	2HG2	THR A	40	-9.779	-6.923	-0.391	1.00	0.00
ATOM 577	3HG2	THR A	40	-9.332	-7.712	1.122	1.00	0.00
ATOM 578	N	LYS A	41	-11.500	-3.413	1.766	1.00	0.00
ATOM 579	CA	LYS A	41	-11.195	-2.028	1.424	1.00	0.00
ATOM 580	C	LYS A	41	-10.609	-1.280	2.618	1.00	0.00
ATOM 581	O	LYS A	41	-9.693	-0.472	2.467	1.00	0.00
ATOM 582	CB	LYS A	41	-12.453	-1.313	0.927	1.00	0.00
ATOM 583	CG	LYS A	41	-12.159	-0.088	0.077	1.00	0.00
ATOM 584	CD	LYS A	41	-13.376	0.816	-0.036	1.00	0.00
ATOM 585	CE	LYS A	41	-12.975	2.262	-0.283	1.00	0.00
ATOM 586	NZ	LYS A	41	-13.987	3.217	0.249	1.00	0.00
ATOM 587	H	LYS A	41	-12.415	-3.744	1.651	1.00	0.00
ATOM 588	HA	LYS A	41	-10.463	-2.038	0.630	1.00	0.00
ATOM 589	1HB	LYS A	41	-13.036	-2.004	0.336	1.00	0.00
ATOM 590	2HB	LYS A	41	-13.037	-1.002	1.781	1.00	0.00
ATOM 591	1HG	LYS A	41	-11.352	0.468	0.530	1.00	0.00
ATOM 592	2HG	LYS A	41	-11.867	-0.410	-0.912	1.00	0.00
ATOM 593	1HD	LYS A	41	-13.987	0.479	-0.859	1.00	0.00
ATOM 594	2HD	LYS A	41	-13.941	0.760	0.882	1.00	0.00

ATOM 595	1HE	LYS	A	41	-12.030	2.448	0.203	1.00	0.00
ATOM 596	2HE	LYS	A	41	-12.871	2.416	-1.345	1.00	0.00
ATOM 597	1HZ	LYS	A	41	-14.080	4.031	-0.391	1.00	0.00
ATOM 598	2HZ	LYS	A	41	-13.699	3.559	1.187	1.00	0.00
ATOM 599	3HZ	LYS	A	41	-14.913	2.748	0.334	1.00	0.00
ATOM 600	N	ARG	A	42	-11.145	-1.551	3.805	1.00	0.00
ATOM 601	CA	ARG	A	42	-10.675	-0.898	5.021	1.00	0.00
ATOM 602	C	ARG	A	42	-9.443	-1.603	5.584	1.00	0.00
ATOM 603	O	ARG	A	42	-8.596	-0.978	6.222	1.00	0.00
ATOM 604	CB	ARG	A	42	-11.788	-0.870	6.073	1.00	0.00
ATOM 605	CG	ARG	A	42	-12.089	0.524	6.603	1.00	0.00
ATOM 606	CD	ARG	A	42	-13.517	0.951	6.294	1.00	0.00
ATOM 607	NE	ARG	A	42	-13.564	2.067	5.353	1.00	0.00
ATOM 608	CZ	ARG	A	42	-13.363	3.336	5.696	1.00	0.00
ATOM 609	NH1	ARG	A	42	-13.103	3.657	6.958	1.00	0.00
ATOM 610	NH2	ARG	A	42	-13.422	4.290	4.777	1.00	0.00
ATOM 611	H	ARG	A	42	-11.875	-2.203	3.862	1.00	0.00
ATOM 612	HA	ARG	A	42	-10.408	0.117	4.769	1.00	0.00
ATOM 613	1HB	ARG	A	42	-12.690	-1.269	5.634	1.00	0.00
ATOM 614	2HB	ARG	A	42	-11.498	-1.492	6.907	1.00	0.00
ATOM 615	1HG	ARG	A	42	-11.947	0.529	7.673	1.00	0.00
ATOM 616	2HG	ARG	A	42	-11.407	1.227	6.146	1.00	0.00
ATOM 617	1HD	ARG	A	42	-14.048	0.112	5.869	1.00	0.00
ATOM 618	2HD	ARG	A	42	-13.996	1.249	7.216	1.00	0.00
ATOM 619	HE	ARG	A	42	-13.755	1.859	4.414	1.00	0.00
ATOM 620	1HH1	ARG	A	42	-13.057	2.943	7.657	1.00	0.00
ATOM 621	2HH1	ARG	A	42	-12.954	4.613	7.210	1.00	0.00



ATOM 622	1HH2	ARG	A	42	-13.617	4.054	3.824	1.00	0.00
ATOM 623	2HH2	ARG	A	42	-13.271	5.244	5.035	1.00	0.00
ATOM 624	N	SER	A	43	-9.351	-2.907	5.345	1.00	0.00
ATOM 625	CA	SER	A	43	-8.223	-3.695	5.832	1.00	0.00
ATOM 626	C	SER	A	43	-6.928	-3.290	5.131	1.00	0.00
ATOM 627	O	SER	A	43	-5.928	-2.990	5.783	1.00	0.00
ATOM 628	CB	SER	A	43	-8.489	-5.187	5.620	1.00	0.00
ATOM 629	OG	SER	A	43	-8.607	-5.865	6.858	1.00	0.00
ATOM 630	H	SER	A	43	-10.057	-3.351	4.832	1.00	0.00
ATOM 631	HA	SER	A	43	-8.119	-3.504	6.890	1.00	0.00
ATOM 632	1HB	SER	A	43	-9.410	-5.312	5.068	1.00	0.00
ATOM 633	2HB	SER	A	43	-7.674	-5.623	5.061	1.00	0.00
ATOM 634	HG	SER	A	43	-9.321	-6.505	6.808	1.00	0.00
ATOM 635	N	ILE	A	44	-6.954	-3.288	3.802	1.00	0.00
ATOM 636	CA	ILE	A	44	-5.781	-2.924	3.016	1.00	0.00
ATOM 637	C	ILE	A	44	-5.386	-1.468	3.250	1.00	0.00
ATOM 638	O	ILE	A	44	-4.216	-1.162	3.475	1.00	0.00
ATOM 639	CB	ILE	A	44	-6.021	-3.148	1.510	1.00	0.00
ATOM 640	CG1	ILE	A	44	-6.498	-4.579	1.256	1.00	0.00
ATOM 641	CG2	ILE	A	44	-4.753	-2.860	0.719	1.00	0.00
ATOM 642	CD1	ILE	A	44	-6.768	-4.877	-0.202	1.00	0.00
ATOM 643	H	ILE	A	44	-7.780	-3.539	3.340	1.00	0.00
ATOM 644	HA	ILE	A	44	-4.963	-3.559	3.326	1.00	0.00
ATOM 645	HB	ILE	A	44	-6.784	-2.458	1.183	1.00	0.00
ATOM 646	1HG1	ILE	A	44	-5.743	-5.270	1.600	1.00	0.00
ATOM 647	2HG1	ILE	A	44	-7.412	-4.750	1.806	1.00	0.00
ATOM 648	1HG2	ILE	A	44	-4.972	-2.894	-0.338	1.00	0.00

ATOM 649	2HG2	ILE	A	44	-4.005	-3.603	0.955	1.00	0.00
ATOM 650	3HG2	ILE	A	44	-4.381	-1.881	0.979	1.00	0.00
ATOM 651	1HD1	ILE	A	44	-6.464	-5.889	-0.425	1.00	0.00
ATOM 652	2HD1	ILE	A	44	-6.212	-4.188	-0.819	1.00	0.00
ATOM 653	3HD1	ILE	A	44	-7.824	-4.768	-0.403	1.00	0.00
ATOM 654	N	GLU	A	45	-6.369	-0.575	3.197	1.00	0.00
ATOM 655	CA	GLU	A	45	-6.118	0.847	3.404	1.00	0.00
ATOM 656	C	GLU	A	45	-5.514	1.095	4.784	1.00	0.00
ATOM 657	O	GLU	A	45	-4.535	1.828	4.920	1.00	0.00
ATOM 658	CB	GLU	A	45	-7.416	1.642	3.248	1.00	0.00
ATOM 659	CG	GLU	A	45	-7.528	2.364	1.915	1.00	0.00
ATOM 660	CD	GLU	A	45	-7.933	3.817	2.069	1.00	0.00
ATOM 661	OE1	GLU	A	45	-8.586	4.352	1.147	1.00	0.00
ATOM 662	OE2	GLU	A	45	-7.599	4.419	3.111	1.00	0.00
ATOM 663	H	GLU	A	45	-7.283	-0.877	3.015	1.00	0.00
ATOM 664	HA	GLU	A	45	-5.414	1.171	2.653	1.00	0.00
ATOM 665	1HB	GLU	A	45	-8.251	0.966	3.339	1.00	0.00
ATOM 666	2HB	GLU	A	45	-7.472	2.377	4.037	1.00	0.00
ATOM 667	1HG	GLU	A	45	-6.571	2.325	1.417	1.00	0.00
ATOM 668	2HG	GLU	A	45	-8.268	1.861	1.310	1.00	0.00
ATOM 669	N	ASN	A	46	-6.103	0.476	5.801	1.00	0.00
ATOM 670	CA	ASN	A	46	-5.623	0.625	7.169	1.00	0.00
ATOM 671	C	ASN	A	46	-4.182	0.140	7.291	1.00	0.00
ATOM 672	O	ASN	A	46	-3.357	0.767	7.957	1.00	0.00
ATOM 673	CB	ASN	A	46	-6.519	-0.153	8.133	1.00	0.00
ATOM 674	CG	ASN	A	46	-6.118	0.040	9.582	1.00	0.00
ATOM 675	OD1	ASN	A	46	-5.269	0.873	9.898	1.00	0.00

ATOM 676	ND2	ASN	A	46	-6.729	-0.733	10.473	1.00	0.00
ATOM 677	H	ASN	A	46	-6.879	-0.097	5.627	1.00	0.00
ATOM 678	HA	ASN	A	46	-5.660	1.674	7.422	1.00	0.00
ATOM 679	1HB	ASN	A	46	-7.539	0.180	8.014	1.00	0.00
ATOM 680	2HB	ASN	A	46	-6.460	-1.206	7.899	1.00	0.00
ATOM 681	1HD2	ASN	A	46	-7.395	-1.375	10.148	1.00	0.00
ATOM 682	2HD2	ASN	A	46	-6.490	-0.629	11.417	1.00	0.00
ATOM 683	N	ALA	A	47	-3.886	-0.981	6.640	1.00	0.00
ATOM 684	CA	ALA	A	47	-2.545	-1.551	6.671	1.00	0.00
ATOM 685	C	ALA	A	47	-1.540	-0.623	5.998	1.00	0.00
ATOM 686	O	ALA	A	47	-0.423	-0.444	6.483	1.00	0.00
ATOM 687	CB	ALA	A	47	-2.538	-2.915	5.999	1.00	0.00
ATOM 688	H	ALA	A	47	-4.586	-1.433	6.125	1.00	0.00
ATOM 689	HA	ALA	A	47	-2.262	-1.683	7.706	1.00	0.00
ATOM 690	1HB	ALA	A	47	-3.158	-2.885	5.115	1.00	0.00
ATOM 691	2HB	ALA	A	47	-2.925	-3.657	6.683	1.00	0.00
ATOM 692	3HB	ALA	A	47	-1.527	-3.176	5.722	1.00	0.00
ATOM 693	N	LEU	A	48	-1.946	-0.036	4.877	1.00	0.00
ATOM 694	CA	LEU	A	48	-1.083	0.875	4.135	1.00	0.00
ATOM 695	C	LEU	A	48	-0.896	2.186	4.893	1.00	0.00
ATOM 696	O	LEU	A	48	0.138	2.843	4.770	1.00	0.00
ATOM 697	CB	LEU	A	48	-1.670	1.153	2.750	1.00	0.00
ATOM 698	CG	LEU	A	48	-1.596	-0.019	1.770	1.00	0.00
ATOM 699	CD1	LEU	A	48	-2.394	0.287	0.512	1.00	0.00
ATOM 700	CD2	LEU	A	48	-0.148	-0.330	1.422	1.00	0.00
ATOM 701	H	LEU	A	48	-2.848	-0.219	4.541	1.00	0.00
ATOM 702	HA	LEU	A	48	-0.120	0.399	4.019	1.00	0.00

ATOM 703	1HB	LEU	A	48	-2.706	1.431	2.871	1.00	0.00
ATOM 704	2HB	LEU	A	48	-1.139	1.987	2.319	1.00	0.00
ATOM 705	HG	LEU	A	48	-2.026	-0.895	2.233	1.00	0.00
ATOM 706	1HD1	LEU	A	48	-1.915	-0.172	-0.340	1.00	0.00
ATOM 707	2HD1	LEU	A	48	-2.440	1.356	0.366	1.00	0.00
ATOM 708	3HD1	LEU	A	48	-3.395	-0.105	0.616	1.00	0.00
ATOM 709	1HD2	LEU	A	48	-0.090	-0.675	0.399	1.00	0.00
ATOM 710	2HD2	LEU	A	48	0.223	-1.100	2.082	1.00	0.00
ATOM 711	3HD2	LEU	A	48	0.449	0.562	1.536	1.00	0.00
ATOM 712	N	ASN	A	49	-1.901	2.560	5.678	1.00	0.00
ATOM 713	CA	ASN	A	49	-1.848	3.792	6.457	1.00	0.00
ATOM 714	C	ASN	A	49	-0.636	3.795	7.386	1.00	0.00
ATOM 715	O	ASN	A	49	0.223	4.672	7.299	1.00	0.00
ATOM 716	CB	ASN	A	49	-3.134	3.961	7.269	1.00	0.00
ATOM 717	CG	ASN	A	49	-3.914	5.198	6.866	1.00	0.00
ATOM 718	OD1	ASN	A	49	-4.022	6.156	7.632	1.00	0.00
ATOM 719	ND2	ASN	A	49	-4.462	5.184	5.656	1.00	0.00
ATOM 720	H	ASN	A	49	-2.699	1.993	5.736	1.00	0.00
ATOM 721	HA	ASN	A	49	-1.757	4.617	5.766	1.00	0.00
ATOM 722	1HB	ASN	A	49	-3.764	3.098	7.118	1.00	0.00
ATOM 723	2HB	ASN	A	49	-2.886	4.042	8.317	1.00	0.00
ATOM 724	1HD2	ASN	A	49	-4.335	4.387	5.100	1.00	0.00
ATOM 725	2HD2	ASN	A	49	-4.973	5.970	5.370	1.00	0.00
ATOM 726	N	GLN	A	50	-0.576	2.809	8.275	1.00	0.00
ATOM 727	CA	GLN	A	50	0.529	2.698	9.219	1.00	0.00
ATOM 728	C	GLN	A	50	1.856	2.522	8.486	1.00	0.00
ATOM 729	O	GLN	A	50	2.906	2.936	8.975	1.00	0.00

ATOM 730	CB	GLN A	50	0.299	1.522	10.172	1.00	0.00
ATOM 731	CG	GLN A	50	0.289	0.170	9.479	1.00	0.00
ATOM 732	CD	GLN A	50	-0.192	-0.945	10.387	1.00	0.00
ATOM 733	OE1	GLN A	50	-1.389	-1.214	10.480	1.00	0.00
ATOM 734	NE2	GLN A	50	0.743	-1.602	11.064	1.00	0.00
ATOM 735	H	GLN A	50	-1.291	2.139	8.295	1.00	0.00
ATOM 736	HA	GLN A	50	0.568	3.611	9.793	1.00	0.00
ATOM 737	1HB	GLN A	50	1.083	1.517	10.914	1.00	0.00
ATOM 738	2HB	GLN A	50	-0.652	1.656	10.666	1.00	0.00
ATOM 739	1HG	GLN A	50	-0.366	0.223	8.623	1.00	0.00
ATOM 740	2HG	GLN A	50	1.292	-0.060	9.151	1.00	0.00
ATOM 741	1HE2	GLN A	50	1.678	-1.334	10.942	1.00	0.00
ATOM 742	2HE2	GLN A	50	0.460	-2.328	11.659	1.00	0.00
ATOM 743	N	LEU A	51	1.799	1.906	7.309	1.00	0.00
ATOM 744	CA	LEU A	51	2.995	1.675	6.508	1.00	0.00
ATOM 745	C	LEU A	51	3.688	2.993	6.172	1.00	0.00
ATOM 746	O	LEU A	51	4.893	3.140	6.372	1.00	0.00
ATOM 747	CB	LEU A	51	2.633	0.931	5.219	1.00	0.00
ATOM 748	CG	LEU A	51	3.790	0.186	4.554	1.00	0.00
ATOM 749	CD1	LEU A	51	3.279	-1.037	3.808	1.00	0.00
ATOM 750	CD2	LEU A	51	4.546	1.109	3.609	1.00	0.00
ATOM 751	H	LEU A	51	0.932	1.599	6.972	1.00	0.00
ATOM 752	HA	LEU A	51	3.670	1.064	7.087	1.00	0.00
ATOM 753	1HB	LEU A	51	1.856	0.217	5.449	1.00	0.00
ATOM 754	2HB	LEU A	51	2.243	1.649	4.512	1.00	0.00
ATOM 755	HG	LEU A	51	4.479	-0.152	5.315	1.00	0.00
ATOM 756	1HD1	LEU A	51	2.334	-1.346	4.230	1.00	0.00

ATOM 757	2HD1	LEU	A	51	3.994	-1.841	3.900	1.00	0.00
ATOM 758	3HD1	LEU	A	51	3.144	-0.792	2.765	1.00	0.00
ATOM 759	1HD2	LEU	A	51	4.044	1.134	2.653	1.00	0.00
ATOM 760	2HD2	LEU	A	51	5.553	0.742	3.477	1.00	0.00
ATOM 761	3HD2	LEU	A	51	4.578	2.104	4.027	1.00	0.00
ATOM 762	N	PHE	A	52	2.916	3.947	5.660	1.00	0.00
ATOM 763	CA	PHE	A	52	3.455	5.252	5.296	1.00	0.00
ATOM 764	C	PHE	A	52	3.970	5.992	6.526	1.00	0.00
ATOM 765	O	PHE	A	52	4.912	6.780	6.439	1.00	0.00
ATOM 766	CB	PHE	A	52	2.385	6.090	4.594	1.00	0.00
ATOM 767	CG	PHE	A	52	1.628	5.335	3.539	1.00	0.00
ATOM 768	CD1	PHE	A	52	2.300	4.569	2.600	1.00	0.00
ATOM 769	CD2	PHE	A	52	0.245	5.392	3.487	1.00	0.00
ATOM 770	CE1	PHE	A	52	1.606	3.873	1.628	1.00	0.00
ATOM 771	CE2	PHE	A	52	-0.455	4.698	2.518	1.00	0.00
ATOM 772	CZ	PHE	A	52	0.226	3.938	1.588	1.00	0.00
ATOM 773	H	PHE	A	52	1.962	3.768	5.524	1.00	0.00
ATOM 774	HA	PHE	A	52	4.279	5.093	4.616	1.00	0.00
ATOM 775	1HB	PHE	A	52	1.673	6.440	5.326	1.00	0.00
ATOM 776	2HB	PHE	A	52	2.856	6.941	4.122	1.00	0.00
ATOM 777	HD1	PHE	A	52	3.378	4.518	2.632	1.00	0.00
ATOM 778	HD2	PHE	A	52	-0.289	5.986	4.214	1.00	0.00
ATOM 779	HE1	PHE	A	52	2.141	3.279	0.902	1.00	0.00
ATOM 780	HE2	PHE	A	52	-1.533	4.750	2.488	1.00	0.00
ATOM 781	HZ	PHE	A	52	-0.318	3.394	0.830	1.00	0.00
ATOM 782	N	ARG	A	53	3.346	5.734	7.671	1.00	0.00
ATOM 783	CA	ARG	A	53	3.742	6.377	8.918	1.00	0.00

ATOM 784	C	ARG A	53	5.068	5.816	9.423	1.00	0.00
ATOM 785	O	ARG A	53	5.828	6.509	10.100	1.00	0.00
ATOM 786	CB	ARG A	53	2.657	6.189	9.981	1.00	0.00
ATOM 787	CG	ARG A	53	1.314	6.783	9.591	1.00	0.00
ATOM 788	CD	ARG A	53	0.308	6.677	10.725	1.00	0.00
ATOM 789	NE	ARG A	53	-1.018	7.146	10.328	1.00	0.00
ATOM 790	CZ	ARG A	53	-2.003	7.402	11.186	1.00	0.00
ATOM 791	NH1	ARG A	53	-1.816	7.236	12.490	1.00	0.00
ATOM 792	NH2	ARG A	53	-3.176	7.827	10.740	1.00	0.00
ATOM 793	H	ARG A	53	2.601	5.098	7.676	1.00	0.00
ATOM 794	HA	ARG A	53	3.862	7.431	8.723	1.00	0.00
ATOM 795	1HB	ARG A	53	2.522	5.132	10.157	1.00	0.00
ATOM 796	2HB	ARG A	53	2.982	6.659	10.897	1.00	0.00
ATOM 797	1HG	ARG A	53	1.450	7.825	9.341	1.00	0.00
ATOM 798	2HG	ARG A	53	0.932	6.252	8.731	1.00	0.00
ATOM 799	1HD	ARG A	53	0.236	5.644	11.031	1.00	0.00
ATOM 800	2HD	ARG A	53	0.656	7.274	11.555	1.00	0.00
ATOM 801	HE	ARG A	53	-1.183	7.277	9.371	1.00	0.00
ATOM 802	1HH1	ARG A	53	-0.933	6.916	12.832	1.00	0.00
ATOM 803	2HH1	ARG A	53	-2.559	7.431	13.130	1.00	0.00
ATOM 804	1HH2	ARG A	53	-3.323	7.953	9.759	1.00	0.00
ATOM 805	2HH2	ARG A	53	-3.917	8.018	11.385	1.00	0.00
ATOM 806	N	ASN A	54	5.339	4.557	9.091	1.00	0.00
ATOM 807	CA	ASN A	54	6.574	3.905	9.513	1.00	0.00
ATOM 808	C	ASN A	54	7.466	3.598	8.315	1.00	0.00
ATOM 809	O	ASN A	54	8.214	2.620	8.319	1.00	0.00
ATOM 810	CB	ASN A	54	6.260	2.615	10.273	1.00	0.00

ATOM 811	CG	ASN A	54	5.403	2.861	11.498	1.00	0.00
ATOM 812	OD1	ASN A	54	5.847	3.478	12.467	1.00	0.00
ATOM 813	ND2	ASN A	54	4.167	2.377	11.463	1.00	0.00
ATOM 814	H	ASN A	54	4.694	4.055	8.551	1.00	0.00
ATOM 815	HA	ASN A	54	7.098	4.581	10.173	1.00	0.00
ATOM 816	1HB	ASN A	54	5.732	1.939	9.617	1.00	0.00
ATOM 817	2HB	ASN A	54	7.186	2.156	10.588	1.00	0.00
ATOM 818	1HD2	ASN A	54	3.882	1.895	10.659	1.00	0.00
ATOM 819	2HD2	ASN A	54	3.591	2.521	12.243	1.00	0.00
ATOM 820	N	SER A	55	7.382	4.440	7.289	1.00	0.00
ATOM 821	CA	SER A	55	8.183	4.258	6.084	1.00	0.00
ATOM 822	C	SER A	55	9.285	5.308	5.997	1.00	0.00
ATOM 823	O	SER A	55	9.257	6.312	6.709	1.00	0.00
ATOM 824	CB	SER A	55	7.294	4.332	4.840	1.00	0.00
ATOM 825	OG	SER A	55	6.527	5.524	4.831	1.00	0.00
ATOM 826	H	SER A	55	6.767	5.201	7.344	1.00	0.00
ATOM 827	HA	SER A	55	8.636	3.279	6.132	1.00	0.00
ATOM 828	1HB	SER A	55	7.913	4.310	3.955	1.00	0.00
ATOM 829	2HB	SER A	55	6.622	3.486	4.829	1.00	0.00
ATOM 830	HG	SER A	55	7.110	6.279	4.724	1.00	0.00
ATOM 831	N	SER A	56	10.255	5.070	5.121	1.00	0.00
ATOM 832	CA	SER A	56	11.369	5.995	4.941	1.00	0.00
ATOM 833	C	SER A	56	10.869	7.374	4.522	1.00	0.00
ATOM 834	O	SER A	56	11.467	8.393	4.868	1.00	0.00
ATOM 835	CB	SER A	56	12.345	5.455	3.895	1.00	0.00
ATOM 836	OG	SER A	56	13.448	6.328	3.726	1.00	0.00
ATOM 837	H	SER A	56	10.223	4.251	4.582	1.00	0.00



ATOM 838	HA	SER A	56	11.882	6.083	5.887	1.00	0.00
ATOM 839	1HB	SER A	56	12.711	4.489	4.212	1.00	0.00
ATOM 840	2HB	SER A	56	11.834	5.352	2.948	1.00	0.00
ATOM 841	HG	SER A	56	14.093	5.922	3.143	1.00	0.00
ATOM 842	N	ILE A	57	9.769	7.397	3.778	1.00	0.00
ATOM 843	CA	ILE A	57	9.187	8.649	3.313	1.00	0.00
ATOM 844	C	ILE A	57	7.900	8.967	4.069	1.00	0.00
ATOM 845	O	ILE A	57	6.856	9.219	3.467	1.00	0.00
ATOM 846	CB	ILE A	57	8.885	8.603	1.803	1.00	0.00
ATOM 847	CG1	ILE A	57	7.948	7.438	1.483	1.00	0.00
ATOM 848	CG2	ILE A	57	10.177	8.486	1.007	1.00	0.00
ATOM 849	CD1	ILE A	57	7.311	7.534	0.114	1.00	0.00
ATOM 850	H	ILE A	57	9.337	6.551	3.537	1.00	0.00
ATOM 851	HA	ILE A	57	9.903	9.438	3.493	1.00	0.00
ATOM 852	HB	ILE A	57	8.404	9.529	1.526	1.00	0.00
ATOM 853	1HG1	ILE A	57	8.504	6.514	1.526	1.00	0.00
ATOM 854	2HG1	ILE A	57	7.156	7.411	2.217	1.00	0.00
ATOM 855	1HG2	ILE A	57	10.862	9.262	1.316	1.00	0.00
ATOM 856	2HG2	ILE A	57	9.962	8.595	-0.047	1.00	0.00
ATOM 857	3HG2	ILE A	57	10.623	7.520	1.186	1.00	0.00
ATOM 858	1HD1	ILE A	57	6.966	8.543	-0.054	1.00	0.00
ATOM 859	2HD1	ILE A	57	6.474	6.852	0.059	1.00	0.00
ATOM 860	3HD1	ILE A	57	8.039	7.272	-0.641	1.00	0.00
ATOM 861	N	LYS A	58	7.984	8.954	5.396	1.00	0.00
ATOM 862	CA	LYS A	58	6.827	9.240	6.237	1.00	0.00
ATOM 863	C	LYS A	58	6.770	10.719	6.611	1.00	0.00
ATOM 864	O	LYS A	58	6.241	11.082	7.661	1.00	0.00

ATOM 865	CB	LYS A	58	6.872	8.384	7.504	1.00	0.00
ATOM 866	CG	LYS A	58	8.051	8.700	8.411	1.00	0.00
ATOM 867	CD	LYS A	58	8.306	7.578	9.404	1.00	0.00
ATOM 868	CE	LYS A	58	9.792	7.290	9.552	1.00	0.00
ATOM 869	NZ	LYS A	58	10.172	7.044	10.970	1.00	0.00
ATOM 870	H	LYS A	58	8.843	8.746	5.818	1.00	0.00
ATOM 871	HA	LYS A	58	5.940	8.989	5.676	1.00	0.00
ATOM 872	1HB	LYS A	58	5.962	8.542	8.064	1.00	0.00
ATOM 873	2HB	LYS A	58	6.934	7.344	7.220	1.00	0.00
ATOM 874	1HG	LYS A	58	8.933	8.838	7.805	1.00	0.00
ATOM 875	2HG	LYS A	58	7.839	9.609	8.955	1.00	0.00
ATOM 876	1HD	LYS A	58	7.909	7.864	10.367	1.00	0.00
ATOM 877	2HD	LYS A	58	7.808	6.684	9.059	1.00	0.00
ATOM 878	1HE	LYS A	58	10.036	6.416	8.966	1.00	0.00
ATOM 879	2HE	LYS A	58	10.349	8.138	9.181	1.00	0.00
ATOM 880	1HZ	LYS A	58	9.340	6.743	11.516	1.00	0.00
ATOM 881	2HZ	LYS A	58	10.555	7.913	11.394	1.00	0.00
ATOM 882	3HZ	LYS A	58	10.896	6.298	11.022	1.00	0.00
ATOM 883	N	SER A	59	7.318	11.568	5.747	1.00	0.00
ATOM 884	CA	SER A	59	7.328	13.005	5.990	1.00	0.00
ATOM 885	C	SER A	59	6.514	13.744	4.932	1.00	0.00
ATOM 886	O	SER A	59	5.921	14.787	5.207	1.00	0.00
ATOM 887	CB	SER A	59	8.765	13.532	6.005	1.00	0.00
ATOM 888	OG	SER A	59	9.297	13.525	7.317	1.00	0.00
ATOM 889	H	SER A	59	7.727	11.220	4.928	1.00	0.00
ATOM 890	HA	SER A	59	6.881	13.181	6.957	1.00	0.00
ATOM 891	1HB	SER A	59	9.382	12.906	5.377	1.00	0.00

ATOM 892	2HB	SER A	59	8.778	14.544	5.628	1.00	0.00
ATOM 893	HG	SER A	59	10.141	13.982	7.323	1.00	0.00
ATOM 894	N	TYR A	60	6.490	13.198	3.719	1.00	0.00
ATOM 895	CA	TYR A	60	5.749	13.807	2.621	1.00	0.00
ATOM 896	C	TYR A	60	4.516	12.982	2.268	1.00	0.00
ATOM 897	O	TYR A	60	3.507	13.520	1.812	1.00	0.00
ATOM 898	CB	TYR A	60	6.648	13.952	1.392	1.00	0.00
ATOM 899	CG	TYR A	60	7.870	14.810	1.632	1.00	0.00
ATOM 900	CD1	TYR A	60	7.744	16.128	2.053	1.00	0.00
ATOM 901	CD2	TYR A	60	9.148	14.302	1.438	1.00	0.00
ATOM 902	CE1	TYR A	60	8.858	16.916	2.273	1.00	0.00
ATOM 903	CE2	TYR A	60	10.267	15.084	1.656	1.00	0.00
ATOM 904	CZ	TYR A	60	10.116	16.389	2.074	1.00	0.00
ATOM 905	OH	TYR A	60	11.227	17.170	2.293	1.00	0.00
ATOM 906	H	TYR A	60	6.983	12.366	3.559	1.00	0.00
ATOM 907	HA	TYR A	60	5.432	14.788	2.940	1.00	0.00
ATOM 908	1HB	TYR A	60	6.986	12.974	1.084	1.00	0.00
ATOM 909	2HB	TYR A	60	6.079	14.399	0.590	1.00	0.00
ATOM 910	HD1	TYR A	60	6.757	16.538	2.208	1.00	0.00
ATOM 911	HD2	TYR A	60	9.262	13.279	1.111	1.00	0.00
ATOM 912	HE1	TYR A	60	8.739	17.938	2.600	1.00	0.00
ATOM 913	HE2	TYR A	60	11.252	14.670	1.500	1.00	0.00
ATOM 914	HH	TYR A	60	11.227	17.482	3.200	1.00	0.00
ATOM 915	N	PHE A	61	4.602	11.672	2.480	1.00	0.00
ATOM 916	CA	PHE A	61	3.490	10.776	2.182	1.00	0.00
ATOM 917	C	PHE A	61	2.248	11.167	2.975	1.00	0.00
ATOM 918	O	PHE A	61	2.298	11.313	4.196	1.00	0.00

ATOM 919	CB	PHE A	61	3.875	9.329	2.495	1.00	0.00
ATOM 920	CG	PHE A	61	3.140	8.318	1.659	1.00	0.00
ATOM 921	CD1	PHE A	61	3.777	7.674	0.610	1.00	0.00
ATOM 922	CD2	PHE A	61	1.815	8.016	1.922	1.00	0.00
ATOM 923	CE1	PHE A	61	3.103	6.745	-0.161	1.00	0.00
ATOM 924	CE2	PHE A	61	1.136	7.088	1.155	1.00	0.00
ATOM 925	CZ	PHE A	61	1.782	6.451	0.112	1.00	0.00
ATOM 926	H	PHE A	61	5.432	11.299	2.845	1.00	0.00
ATOM 927	HA	PHE A	61	3.271	10.860	1.128	1.00	0.00
ATOM 928	1HB	PHE A	61	4.932	9.198	2.320	1.00	0.00
ATOM 929	2HB	PHE A	61	3.659	9.123	3.533	1.00	0.00
ATOM 930	HD1	PHE A	61	4.811	7.903	0.397	1.00	0.00
ATOM 931	HD2	PHE A	61	1.309	8.512	2.737	1.00	0.00
ATOM 932	HE1	PHE A	61	3.611	6.250	-0.975	1.00	0.00
ATOM 933	HE2	PHE A	61	0.103	6.860	1.369	1.00	0.00
ATOM 934	HZ	PHE A	61	1.253	5.726	-0.490	1.00	0.00
ATOM 935	N	SER A	62	1.133	11.338	2.271	1.00	0.00
ATOM 936	CA	SER A	62	-0.124	11.712	2.908	1.00	0.00
ATOM 937	C	SER A	62	-0.924	10.477	3.305	1.00	0.00
ATOM 938	O	SER A	62	-1.159	10.229	4.488	1.00	0.00
ATOM 939	CB	SER A	62	-0.952	12.592	1.970	1.00	0.00
ATOM 940	OG	SER A	62	-0.607	12.360	0.616	1.00	0.00
ATOM 941	H	SER A	62	1.156	11.208	1.300	1.00	0.00
ATOM 942	HA	SER A	62	0.112	12.275	3.799	1.00	0.00
ATOM 943	1HB	SER A	62	-2.001	12.371	2.105	1.00	0.00
ATOM 944	2HB	SER A	62	-0.772	13.632	2.202	1.00	0.00
ATOM 945	HG	SER A	62	-1.117	11.621	0.278	1.00	0.00

ATOM 946	N	ASP A	63	-1.343	9.704	2.307	1.00	0.00
ATOM 947	CA	ASP A	63	-2.119	8.494	2.552	1.00	0.00
ATOM 948	C	ASP A	63	-2.339	7.716	1.259	1.00	0.00
ATOM 949	O	ASP A	63	-1.730	8.015	0.231	1.00	0.00
ATOM 950	CB	ASP A	63	-3.466	8.848	3.186	1.00	0.00
ATOM 951	CG	ASP A	63	-3.820	7.934	4.343	1.00	0.00
ATOM 952	OD1	ASP A	63	-2.978	7.776	5.252	1.00	0.00
ATOM 953	OD2	ASP A	63	-4.937	7.377	4.340	1.00	0.00
ATOM 954	H	ASP A	63	-1.126	9.954	1.385	1.00	0.00
ATOM 955	HA	ASP A	63	-1.560	7.876	3.239	1.00	0.00
ATOM 956	1HB	ASP A	63	-3.428	9.863	3.553	1.00	0.00
ATOM 957	2HB	ASP A	63	-4.241	8.769	2.439	1.00	0.00
ATOM 958	N	CYS A	64	-3.214	6.716	1.317	1.00	0.00
ATOM 959	CA	CYS A	64	-3.516	5.894	0.151	1.00	0.00
ATOM 960	C	CYS A	64	-5.008	5.925	-0.165	1.00	0.00
ATOM 961	O	CYS A	64	-5.842	6.011	0.736	1.00	0.00
ATOM 962	CB	CYS A	64	-3.063	4.452	0.387	1.00	0.00
ATOM 963	SG	CYS A	64	-3.873	3.644	1.788	1.00	0.00
ATOM 964	H	CYS A	64	-3.666	6.527	2.166	1.00	0.00
ATOM 965	HA	CYS A	64	-2.973	6.299	-0.690	1.00	0.00
ATOM 966	1HB	CYS A	64	-3.274	3.867	-0.495	1.00	0.00
ATOM 967	2HB	CYS A	64	-1.998	4.443	0.573	1.00	0.00
ATOM 968	HG	CYS A	64	-4.764	3.995	1.857	1.00	0.00
ATOM 969	N	GLN A	65	-5.336	5.853	-1.451	1.00	0.00
ATOM 970	CA	GLN A	65	-6.728	5.871	-1.887	1.00	0.00
ATOM 971	C	GLN A	65	-7.048	4.644	-2.733	1.00	0.00
ATOM 972	O	GLN A	65	-6.681	4.574	-3.907	1.00	0.00

ATOM 973	CB	GLN A	65	-7.018	7.145	-2.683	1.00	0.00
ATOM 974	CG	GLN A	65	-8.495	7.354	-2.982	1.00	0.00
ATOM 975	CD	GLN A	65	-8.782	7.440	-4.468	1.00	0.00
ATOM 976	OE1	GLN A	65	-7.889	7.710	-5.271	1.00	0.00
ATOM 977	NE2	GLN A	65	-10.036	7.212	-4.842	1.00	0.00
ATOM 978	H	GLN A	65	-4.626	5.784	-2.122	1.00	0.00
ATOM 979	HA	GLN A	65	-7.351	5.859	-1.005	1.00	0.00
ATOM 980	1HB	GLN A	65	-6.663	7.997	-2.120	1.00	0.00
ATOM 981	2HB	GLN A	65	-6.485	7.099	-3.621	1.00	0.00
ATOM 982	1HG	GLN A	65	-9.051	6.525	-2.571	1.00	0.00
ATOM 983	2HG	GLN A	65	-8.817	8.271	-2.514	1.00	0.00
ATOM 984	1HE2	GLN A	65	-10.696	7.003	-4.147	1.00	0.00
ATOM 985	2HE2	GLN A	65	-10.251	7.262	-5.796	1.00	0.00
ATOM 986	N	VAL A	66	-7.735	3.679	-2.132	1.00	0.00
ATOM 987	CA	VAL A	66	-8.106	2.455	-2.830	1.00	0.00
ATOM 988	C	VAL A	66	-9.218	2.717	-3.841	1.00	0.00
ATOM 989	O	VAL A	66	-10.379	2.892	-3.472	1.00	0.00
ATOM 990	CB	VAL A	66	-8.561	1.360	-1.843	1.00	0.00
ATOM 991	CG1	VAL A	66	-9.771	1.824	-1.046	1.00	0.00
ATOM 992	CG2	VAL A	66	-8.863	0.064	-2.581	1.00	0.00
ATOM 993	H	VAL A	66	-8.000	3.793	-1.194	1.00	0.00
ATOM 994	HA	VAL A	66	-7.233	2.095	-3.356	1.00	0.00
ATOM 995	HB	VAL A	66	-7.753	1.174	-1.150	1.00	0.00
ATOM 996	1HG1	VAL A	66	-9.699	1.452	-0.035	1.00	0.00
ATOM 997	2HG1	VAL A	66	-10.671	1.445	-1.506	1.00	0.00
ATOM 998	3HG1	VAL A	66	-9.800	2.904	-1.031	1.00	0.00
ATOM 999	1HG2	VAL A	66	-8.377	0.075	-3.545	1.00	0.00

ATOM 1000	2HG2	VAL	A	66	-9.930	-0.033	-2.717	1.00	0.00
ATOM 1001	3HG2	VAL	A	66	-8.496	-0.773	-2.004	1.00	0.00
ATOM 1002	N	LEU	A	67	-8.855	2.741	-5.120	1.00	0.00
ATOM 1003	CA	LEU	A	67	-9.822	2.981	-6.184	1.00	0.00
ATOM 1004	C	LEU	A	67	-10.832	1.841	-6.267	1.00	0.00
ATOM 1005	O	LEU	A	67	-12.040	2.061	-6.187	1.00	0.00
ATOM 1006	CB	LEU	A	67	-9.105	3.142	-7.525	1.00	0.00
ATOM 1007	CG	LEU	A	67	-7.900	4.083	-7.506	1.00	0.00
ATOM 1008	CD1	LEU	A	67	-7.302	4.214	-8.898	1.00	0.00
ATOM 1009	CD2	LEU	A	67	-8.299	5.448	-6.965	1.00	0.00
ATOM 1010	H	LEU	A	67	-7.914	2.594	-5.352	1.00	0.00
ATOM 1011	HA	LEU	A	67	-10.347	3.895	-5.954	1.00	0.00
ATOM 1012	1HB	LEU	A	67	-8.769	2.167	-7.850	1.00	0.00
ATOM 1013	2HB	LEU	A	67	-9.815	3.518	-8.247	1.00	0.00
ATOM 1014	HG	LEU	A	67	-7.141	3.674	-6.855	1.00	0.00
ATOM 1015	1HD1	LEU	A	67	-8.067	4.028	-9.637	1.00	0.00
ATOM 1016	2HD1	LEU	A	67	-6.504	3.496	-9.016	1.00	0.00
ATOM 1017	3HD1	LEU	A	67	-6.910	5.212	-9.029	1.00	0.00
ATOM 1018	1HD2	LEU	A	67	-9.104	5.851	-7.562	1.00	0.00
ATOM 1019	2HD2	LEU	A	67	-7.451	6.115	-7.008	1.00	0.00
ATOM 1020	3HD2	LEU	A	67	-8.627	5.347	-5.941	1.00	0.00
ATOM 1021	N	ALA	A	68	-10.328	0.621	-6.428	1.00	0.00
ATOM 1022	CA	ALA	A	68	-11.185	-0.554	-6.522	1.00	0.00
ATOM 1023	C	ALA	A	68	-10.357	-1.831	-6.599	1.00	0.00
ATOM 1024	O	ALA	A	68	-9.126	-1.787	-6.597	1.00	0.00
ATOM 1025	CB	ALA	A	68	-12.103	-0.444	-7.730	1.00	0.00
ATOM 1026	H	ALA	A	68	-9.356	0.509	-6.485	1.00	0.00

ATOM 1027	HA	ALA	A	68	-11.800	-0.589	-5.634	1.00	0.00
ATOM 1028	1HB	ALA	A	68	-12.992	-1.032	-7.561	1.00	0.00
ATOM 1029	2HB	ALA	A	68	-11.588	-0.811	-8.607	1.00	0.00
ATOM 1030	3HB	ALA	A	68	-12.377	0.590	-7.880	1.00	0.00
ATOM 1031	N	PHE	A	69	-11.039	-2.970	-6.669	1.00	0.00
ATOM 1032	CA	PHE	A	69	-10.365	-4.261	-6.748	1.00	0.00
ATOM 1033	C	PHE	A	69	-10.615	-4.923	-8.098	1.00	0.00
ATOM 1034	O	PHE	A	69	-11.760	-5.068	-8.527	1.00	0.00
ATOM 1035	CB	PHE	A	69	-10.840	-5.179	-5.620	1.00	0.00
ATOM 1036	CG	PHE	A	69	-10.503	-4.667	-4.249	1.00	0.00
ATOM 1037	CD1	PHE	A	69	-9.183	-4.560	-3.840	1.00	0.00
ATOM 1038	CD2	PHE	A	69	-11.506	-4.292	-3.370	1.00	0.00
ATOM 1039	CE1	PHE	A	69	-8.870	-4.089	-2.579	1.00	0.00
ATOM 1040	CE2	PHE	A	69	-11.199	-3.820	-2.108	1.00	0.00
ATOM 1041	CZ	PHE	A	69	-9.880	-3.717	-1.712	1.00	0.00
ATOM 1042	H	PHE	A	69	-12.018	-2.942	-6.667	1.00	0.00
ATOM 1043	HA	PHE	A	69	-9.304	-4.089	-6.637	1.00	0.00
ATOM 1044	1HB	PHE	A	69	-11.913	-5.286	-5.680	1.00	0.00
ATOM 1045	2HB	PHE	A	69	-10.379	-6.149	-5.736	1.00	0.00
ATOM 1046	HD1	PHE	A	69	-8.393	-4.850	-4.517	1.00	0.00
ATOM 1047	HD2	PHE	A	69	-12.539	-4.371	-3.678	1.00	0.00
ATOM 1048	HE1	PHE	A	69	-7.838	-4.011	-2.272	1.00	0.00
ATOM 1049	HE2	PHE	A	69	-11.991	-3.530	-1.432	1.00	0.00
ATOM 1050	HZ	PHE	A	69	-9.638	-3.349	-0.727	1.00	0.00
ATOM 1051	N	ARG	A	70	-9.537	-5.322	-8.765	1.00	0.00
ATOM 1052	CA	ARG	A	70	-9.641	-5.969	-10.067	1.00	0.00
ATOM 1053	C	ARG	A	70	-9.578	-7.487	-9.928	1.00	0.00



ATOM 1054	O	ARG A	70	-9.101	-8.008	-8.920	1.00	0.00
ATOM 1055	CB	ARG A	70	-8.523	-5.483	-10.991	1.00	0.00
ATOM 1056	CG	ARG A	70	-8.331	-3.975	-10.972	1.00	0.00
ATOM 1057	CD	ARG A	70	-9.483	-3.259	-11.658	1.00	0.00
ATOM 1058	NE	ARG A	70	-9.432	-3.404	-13.110	1.00	0.00
ATOM 1059	CZ	ARG A	70	-10.322	-2.866	-13.940	1.00	0.00
ATOM 1060	NH1	ARG A	70	-11.333	-2.149	-13.467	1.00	0.00
ATOM 1061	NH2	ARG A	70	-10.201	-3.047	-15.249	1.00	0.00
ATOM 1062	H	ARG A	70	-8.651	-5.180	-8.371	1.00	0.00
ATOM 1063	HA	ARG A	70	-10.593	-5.699	-10.497	1.00	0.00
ATOM 1064	1HB	ARG A	70	-7.596	-5.946	-10.689	1.00	0.00
ATOM 1065	2HB	ARG A	70	-8.752	-5.783	-12.003	1.00	0.00
ATOM 1066	1HG	ARG A	70	-8.273	-3.643	-9.947	1.00	0.00
ATOM 1067	2HG	ARG A	70	-7.412	-3.733	-11.485	1.00	0.00
ATOM 1068	1HD	ARG A	70	-10.413	-3.673	-11.297	1.00	0.00
ATOM 1069	2HD	ARG A	70	-9.437	-2.209	-11.408	1.00	0.00
ATOM 1070	HE	ARG A	70	-8.695	-3.930	-13.487	1.00	0.00
ATOM 1071	1HH1	ARG A	70	-11.429	-2.008	-12.481	1.00	0.00
ATOM 1072	2HH1	ARG A	70	-11.998	-1.746	-14.096	1.00	0.00
ATOM 1073	1HH2	ARG A	70	-9.441	-3.587	-15.611	1.00	0.00
ATOM 1074	2HH2	ARG A	70	-10.870	-2.643	-15.873	1.00	0.00
ATOM 1075	N	SER A	71	-10.061	-8.190	-10.948	1.00	0.00
ATOM 1076	CA	SER A	71	-10.059	-9.648	-10.940	1.00	0.00
ATOM 1077	C	SER A	71	-9.001	-10.196	-11.893	1.00	0.00
ATOM 1078	O	SER A	71	-9.078	-9.991	-13.104	1.00	0.00
ATOM 1079	CB	SER A	71	-11.438	-10.183	-11.328	1.00	0.00
ATOM 1080	OG	SER A	71	-11.385	-11.568	-11.618	1.00	0.00

ATOM 1081	H	SER A	71	-10.427	-7.716	-11.724	1.00	0.00
ATOM 1082	HA	SER A	71	-9.825	-9.973	-9.938	1.00	0.00
ATOM 1083	1HB	SER A	71	-12.126	-10.025	-10.510	1.00	0.00
ATOM 1084	2HB	SER A	71	-11.793	-9.658	-12.203	1.00	0.00
ATOM 1085	HG	SER A	71	-11.550	-12.070	-10.815	1.00	0.00
ATOM 1086	N	VAL A	72	-8.015	-10.892	-11.338	1.00	0.00
ATOM 1087	CA	VAL A	72	-6.942	-11.469	-12.140	1.00	0.00
ATOM 1088	C	VAL A	72	-7.494	-12.435	-13.182	1.00	0.00
ATOM 1089	O	VAL A	72	-6.928	-12.586	-14.265	1.00	0.00
ATOM 1090	CB	VAL A	72	-5.921	-12.214	-11.259	1.00	0.00
ATOM 1091	CG1	VAL A	72	-5.041	-11.226	-10.509	1.00	0.00
ATOM 1092	CG2	VAL A	72	-6.630	-13.150	-10.292	1.00	0.00
ATOM 1093	H	VAL A	72	-8.008	-11.021	-10.367	1.00	0.00
ATOM 1094	HA	VAL A	72	-6.432	-10.663	-12.644	1.00	0.00
ATOM 1095	HB	VAL A	72	-5.287	-12.808	-11.902	1.00	0.00
ATOM 1096	1HG1	VAL A	72	-5.651	-10.423	-10.122	1.00	0.00
ATOM 1097	2HG1	VAL A	72	-4.299	-10.822	-11.180	1.00	0.00
ATOM 1098	3HG1	VAL A	72	-4.550	-11.731	-9.690	1.00	0.00
ATOM 1099	1HG2	VAL A	72	-6.923	-12.601	-9.410	1.00	0.00
ATOM 1100	2HG2	VAL A	72	-5.963	-13.951	-10.012	1.00	0.00
ATOM 1101	3HG2	VAL A	72	-7.507	-13.562	-10.769	1.00	0.00
ATOM 1102	N	SER A	73	-8.603	-13.088	-12.849	1.00	0.00
ATOM 1103	CA	SER A	73	-9.232	-14.040	-13.757	1.00	0.00
ATOM 1104	C	SER A	73	-8.276	-15.178	-14.101	1.00	0.00
ATOM 1105	O	SER A	73	-8.344	-15.752	-15.188	1.00	0.00
ATOM 1106	CB	SER A	73	-9.683	-13.333	-15.036	1.00	0.00
ATOM 1107	OG	SER A	73	-10.899	-12.636	-14.833	1.00	0.00

ATOM 1108	H	SER A	73	-9.007	-12.925	-11.971	1.00	0.00
ATOM 1109	HA	SER A	73	-10.098	-14.451	-13.259	1.00	0.00
ATOM 1110	1HB	SER A	73	-8.925	-12.627	-15.342	1.00	0.00
ATOM 1111	2HB	SER A	73	-9.828	-14.065	-15.817	1.00	0.00
ATOM 1112	N	ASN A	74	-7.385	-15.500	-13.168	1.00	0.00
ATOM 1113	CA	ASN A	74	-6.416	-16.570	-13.374	1.00	0.00
ATOM 1114	C	ASN A	74	-6.863	-17.852	-12.680	1.00	0.00
ATOM 1115	O	ASN A	74	-6.892	-18.921	-13.289	1.00	0.00
ATOM 1116	CB	ASN A	74	-5.041	-16.147	-12.854	1.00	0.00
ATOM 1117	CG	ASN A	74	-4.448	-15.002	-13.650	1.00	0.00
ATOM 1118	OD1	ASN A	74	-4.680	-14.882	-14.854	1.00	0.00
ATOM 1119	ND2	ASN A	74	-3.677	-14.152	-12.982	1.00	0.00
ATOM 1120	H	ASN A	74	-7.379	-15.007	-12.321	1.00	0.00
ATOM 1121	HA	ASN A	74	-6.347	-16.754	-14.436	1.00	0.00
ATOM 1122	1HB	ASN A	74	-5.132	-15.835	-11.824	1.00	0.00
ATOM 1123	2HB	ASN A	74	-4.367	-16.989	-12.911	1.00	0.00
ATOM 1124	1HD2	ASN A	74	-3.535	-14.311	-12.025	1.00	0.00
ATOM 1125	2HD2	ASN A	74	-3.281	-13.402	-13.472	1.00	0.00
ATOM 1126	N	ASN A	75	-7.211	-17.737	-11.402	1.00	0.00
ATOM 1127	CA	ASN A	75	-7.656	-18.888	-10.625	1.00	0.00
ATOM 1128	C	ASN A	75	-8.925	-18.569	-9.835	1.00	0.00
ATOM 1129	O	ASN A	75	-9.339	-19.345	-8.974	1.00	0.00
ATOM 1130	CB	ASN A	75	-6.550	-19.343	-9.672	1.00	0.00
ATOM 1131	CG	ASN A	75	-6.764	-20.757	-9.170	1.00	0.00
ATOM 1132	OD1	ASN A	75	-7.438	-21.562	-9.815	1.00	0.00
ATOM 1133	ND2	ASN A	75	-6.191	-21.067	-8.013	1.00	0.00
ATOM 1134	H	ASN A	75	-7.167	-16.857	-10.972	1.00	0.00

ATOM	1135	HA	ASN	A	75	-7.873	-19.689	-11.317	1.00	0.00
ATOM	1136	1HB	ASN	A	75	-5.602	-19.304	-10.187	1.00	0.00
ATOM	1137	2HB	ASN	A	75	-6.521	-18.678	-8.822	1.00	0.00
ATOM	1138	1HD2	ASN	A	75	-5.669	-20.375	-7.557	1.00	0.00
ATOM	1139	2HD2	ASN	A	75	-6.314	-21.974	-7.665	1.00	0.00
ATOM	1140	N	ASN	A	76	-9.540	-17.424	-10.129	1.00	0.00
ATOM	1141	CA	ASN	A	76	-10.759	-17.013	-9.442	1.00	0.00
ATOM	1142	C	ASN	A	76	-10.556	-16.991	-7.929	1.00	0.00
ATOM	1143	O	ASN	A	76	-11.447	-17.365	-7.168	1.00	0.00
ATOM	1144	CB	ASN	A	76	-11.911	-17.953	-9.800	1.00	0.00
ATOM	1145	CG	ASN	A	76	-12.480	-17.671	-11.177	1.00	0.00
ATOM	1146	OD1	ASN	A	76	-12.313	-18.463	-12.105	1.00	0.00
ATOM	1147	ND2	ASN	A	76	-13.157	-16.537	-11.316	1.00	0.00
ATOM	1148	H	ASN	A	76	-9.167	-16.845	-10.825	1.00	0.00
ATOM	1149	HA	ASN	A	76	-11.005	-16.015	-9.774	1.00	0.00
ATOM	1150	1HB	ASN	A	76	-11.557	-18.972	-9.780	1.00	0.00
ATOM	1151	2HB	ASN	A	76	-12.703	-17.836	-9.073	1.00	0.00
ATOM	1152	1HD2	ASN	A	76	-13.251	-15.955	-10.535	1.00	0.00
ATOM	1153	2HD2	ASN	A	76	-13.536	-16.329	-12.197	1.00	0.00
ATOM	1154	N	ASN	A	77	-9.378	-16.550	-7.502	1.00	0.00
ATOM	1155	CA	ASN	A	77	-9.058	-16.479	-6.081	1.00	0.00
ATOM	1156	C	ASN	A	77	-8.332	-15.179	-5.750	1.00	0.00
ATOM	1157	O	ASN	A	77	-8.728	-14.450	-4.841	1.00	0.00
ATOM	1158	CB	ASN	A	77	-8.197	-17.676	-5.670	1.00	0.00
ATOM	1159	CG	ASN	A	77	-8.284	-17.969	-4.186	1.00	0.00
ATOM	1160	OD1	ASN	A	77	-7.286	-17.901	-3.468	1.00	0.00
ATOM	1161	ND2	ASN	A	77	-9.483	-18.296	-3.717	1.00	0.00

ATOM	1162	H	ASN	A	77	-8.707	-16.265	-8.157	1.00	0.00
ATOM	1163	HA	ASN	A	77	-9.986	-16.510	-5.531	1.00	0.00
ATOM	1164	1HB	ASN	A	77	-8.527	-18.551	-6.211	1.00	0.00
ATOM	1165	2HB	ASN	A	77	-7.166	-17.472	-5.920	1.00	0.00
ATOM	1166	1HD2	ASN	A	77	-10.233	-18.331	-4.346	1.00	0.00
ATOM	1167	2HD2	ASN	A	77	-9.568	-18.491	-2.760	1.00	0.00
ATOM	1168	N	HIS	A	78	-7.268	-14.895	-6.495	1.00	0.00
ATOM	1169	CA	HIS	A	78	-6.489	-13.682	-6.279	1.00	0.00
ATOM	1170	C	HIS	A	78	-7.277	-12.445	-6.699	1.00	0.00
ATOM	1171	O	HIS	A	78	-8.255	-12.544	-7.441	1.00	0.00
ATOM	1172	CB	HIS	A	78	-5.174	-13.751	-7.058	1.00	0.00
ATOM	1173	CG	HIS	A	78	-4.393	-15.003	-6.805	1.00	0.00
ATOM	1174	ND1	HIS	A	78	-3.599	-15.601	-7.761	1.00	0.00
ATOM	1175	CD2	HIS	A	78	-4.286	-15.772	-5.695	1.00	0.00
ATOM	1176	CE1	HIS	A	78	-3.040	-16.684	-7.250	1.00	0.00
ATOM	1177	NE2	HIS	A	78	-3.439	-16.809	-5.998	1.00	0.00
ATOM	1178	H	HIS	A	78	-7.002	-15.516	-7.205	1.00	0.00
ATOM	1179	HA	HIS	A	78	-6.269	-13.613	-5.225	1.00	0.00
ATOM	1180	1HB	HIS	A	78	-5.387	-13.701	-8.116	1.00	0.00
ATOM	1181	2HB	HIS	A	78	-4.555	-12.910	-6.781	1.00	0.00
ATOM	1182	HD1	HIS	A	78	-3.466	-15.281	-8.677	1.00	0.00
ATOM	1183	HD2	HIS	A	78	-4.777	-15.600	-4.747	1.00	0.00
ATOM	1184	HE1	HIS	A	78	-2.368	-17.353	-7.768	1.00	0.00
ATOM	1185	HE2	HIS	A	78	-3.241	-17.570	-5.414	1.00	0.00
ATOM	1186	N	THR	A	79	-6.845	-11.284	-6.220	1.00	0.00
ATOM	1187	CA	THR	A	79	-7.510	-10.029	-6.546	1.00	0.00
ATOM	1188	C	THR	A	79	-6.495	-8.903	-6.718	1.00	0.00

ATOM	1189	O	THR	A	79	-5.489	-8.848	-6.010	1.00	0.00
ATOM	1190	CB	THR	A	79	-8.516	-9.662	-5.454	1.00	0.00
ATOM	1191	OG1	THR	A	79	-9.458	-10.704	-5.269	1.00	0.00
ATOM	1192	CG2	THR	A	79	-9.287	-8.394	-5.751	1.00	0.00
ATOM	1193	H	THR	A	79	-6.059	-11.271	-5.634	1.00	0.00
ATOM	1194	HA	THR	A	79	-8.039	-10.165	-7.478	1.00	0.00
ATOM	1195	HB	THR	A	79	-7.984	-9.515	-4.524	1.00	0.00
ATOM	1196	HG1	THR	A	79	-9.809	-10.663	-4.376	1.00	0.00
ATOM	1197	1HG2	THR	A	79	-9.627	-8.411	-6.776	1.00	0.00
ATOM	1198	2HG2	THR	A	79	-8.645	-7.538	-5.600	1.00	0.00
ATOM	1199	3HG2	THR	A	79	-10.139	-8.327	-5.090	1.00	0.00
ATOM	1200	N	GLY	A	80	-6.765	-8.008	-7.663	1.00	0.00
ATOM	1201	CA	GLY	A	80	-5.866	-6.897	-7.911	1.00	0.00
ATOM	1202	C	GLY	A	80	-6.174	-5.695	-7.040	1.00	0.00
ATOM	1203	O	GLY	A	80	-7.325	-5.266	-6.949	1.00	0.00
ATOM	1204	H	GLY	A	80	-7.582	-8.104	-8.196	1.00	0.00
ATOM	1205	1HA	GLY	A	80	-4.853	-7.218	-7.717	1.00	0.00
ATOM	1206	2HA	GLY	A	80	-5.948	-6.607	-8.948	1.00	0.00
ATOM	1207	N	VAL	A	81	-5.145	-5.149	-6.400	1.00	0.00
ATOM	1208	CA	VAL	A	81	-5.313	-3.990	-5.533	1.00	0.00
ATOM	1209	C	VAL	A	81	-4.976	-2.699	-6.271	1.00	0.00
ATOM	1210	O	VAL	A	81	-3.810	-2.318	-6.374	1.00	0.00
ATOM	1211	CB	VAL	A	81	-4.426	-4.094	-4.278	1.00	0.00
ATOM	1212	CG1	VAL	A	81	-4.719	-2.951	-3.317	1.00	0.00
ATOM	1213	CG2	VAL	A	81	-4.625	-5.438	-3.596	1.00	0.00
ATOM	1214	H	VAL	A	81	-4.252	-5.536	-6.514	1.00	0.00
ATOM	1215	HA	VAL	A	81	-6.346	-3.954	-5.218	1.00	0.00

ATOM 1216	HB	VAL	A	81	-3.394	-4.021	-4.585	1.00	0.00
ATOM 1217	1HG1	VAL	A	81	-4.085	-3.041	-2.447	1.00	0.00
ATOM 1218	2HG1	VAL	A	81	-5.755	-2.993	-3.013	1.00	0.00
ATOM 1219	3HG1	VAL	A	81	-4.525	-2.009	-3.808	1.00	0.00
ATOM 1220	1HG2	VAL	A	81	-5.515	-5.404	-2.985	1.00	0.00
ATOM 1221	2HG2	VAL	A	81	-3.770	-5.655	-2.974	1.00	0.00
ATOM 1222	3HG2	VAL	A	81	-4.731	-6.209	-4.344	1.00	0.00
ATOM 1223	N	ASP	A	82	-6.004	-2.026	-6.780	1.00	0.00
ATOM 1224	CA	ASP	A	82	-5.814	-0.776	-7.505	1.00	0.00
ATOM 1225	C	ASP	A	82	-5.889	0.415	-6.555	1.00	0.00
ATOM 1226	O	ASP	A	82	-6.924	1.072	-6.447	1.00	0.00
ATOM 1227	CB	ASP	A	82	-6.870	-0.634	-8.603	1.00	0.00
ATOM 1228	CG	ASP	A	82	-6.485	-1.367	-9.873	1.00	0.00
ATOM 1229	OD1	ASP	A	82	-6.074	-2.543	-9.778	1.00	0.00
ATOM 1230	OD2	ASP	A	82	-6.595	-0.768	-10.963	1.00	0.00
ATOM 1231	H	ASP	A	82	-6.910	-2.379	-6.662	1.00	0.00
ATOM 1232	HA	ASP	A	82	-4.835	-0.800	-7.958	1.00	0.00
ATOM 1233	1HB	ASP	A	82	-7.807	-1.035	-8.248	1.00	0.00
ATOM 1234	2HB	ASP	A	82	-6.997	0.413	-8.839	1.00	0.00
ATOM 1235	N	SER	A	83	-4.785	0.687	-5.866	1.00	0.00
ATOM 1236	CA	SER	A	83	-4.727	1.797	-4.922	1.00	0.00
ATOM 1237	C	SER	A	83	-4.043	3.010	-5.546	1.00	0.00
ATOM 1238	O	SER	A	83	-3.653	2.983	-6.714	1.00	0.00
ATOM 1239	CB	SER	A	83	-3.988	1.376	-3.652	1.00	0.00
ATOM 1240	OG	SER	A	83	-3.013	0.387	-3.932	1.00	0.00
ATOM 1241	H	SER	A	83	-3.991	0.126	-5.993	1.00	0.00
ATOM 1242	HA	SER	A	83	-5.741	2.066	-4.666	1.00	0.00

ATOM	1243	1HB	SER	A	83	-3.499	2.235	-3.220	1.00	0.00
ATOM	1244	2HB	SER	A	83	-4.697	0.973	-2.944	1.00	0.00
ATOM	1245	HG	SER	A	83	-2.588	0.116	-3.115	1.00	0.00
ATOM	1246	N	LEU	A	84	-3.905	4.073	-4.761	1.00	0.00
ATOM	1247	CA	LEU	A	84	-3.272	5.299	-5.236	1.00	0.00
ATOM	1248	C	LEU	A	84	-2.337	5.878	-4.177	1.00	0.00
ATOM	1249	O	LEU	A	84	-2.785	6.340	-3.128	1.00	0.00
ATOM	1250	CB	LEU	A	84	-4.338	6.331	-5.610	1.00	0.00
ATOM	1251	CG	LEU	A	84	-3.851	7.485	-6.491	1.00	0.00
ATOM	1252	CD1	LEU	A	84	-2.869	8.361	-5.732	1.00	0.00
ATOM	1253	CD2	LEU	A	84	-3.217	6.950	-7.765	1.00	0.00
ATOM	1254	H	LEU	A	84	-4.239	4.034	-3.841	1.00	0.00
ATOM	1255	HA	LEU	A	84	-2.694	5.056	-6.115	1.00	0.00
ATOM	1256	1HB	LEU	A	84	-5.134	5.821	-6.130	1.00	0.00
ATOM	1257	2HB	LEU	A	84	-4.737	6.750	-4.699	1.00	0.00
ATOM	1258	HG	LEU	A	84	-4.697	8.096	-6.770	1.00	0.00
ATOM	1259	1HD1	LEU	A	84	-2.993	9.390	-6.038	1.00	0.00
ATOM	1260	2HD1	LEU	A	84	-1.859	8.042	-5.946	1.00	0.00
ATOM	1261	3HD1	LEU	A	84	-3.054	8.276	-4.671	1.00	0.00
ATOM	1262	1HD2	LEU	A	84	-3.446	7.612	-8.588	1.00	0.00
ATOM	1263	2HD2	LEU	A	84	-3.608	5.966	-7.977	1.00	0.00
ATOM	1264	3HD2	LEU	A	84	-2.146	6.892	-7.638	1.00	0.00
ATOM	1265	N	CYS	A	85	-1.038	5.855	-4.459	1.00	0.00
ATOM	1266	CA	CYS	A	85	-0.047	6.385	-3.530	1.00	0.00
ATOM	1267	C	CYS	A	85	-0.145	7.906	-3.457	1.00	0.00
ATOM	1268	O	CYS	A	85	0.651	8.620	-4.066	1.00	0.00
ATOM	1269	CB	CYS	A	85	1.362	5.969	-3.959	1.00	0.00



ATOM	1270	SG	CYS	A	85	1.740	4.226	-3.661	1.00	0.00
ATOM	1271	H	CYS	A	85	-0.740	5.477	-5.313	1.00	0.00
ATOM	1272	HA	CYS	A	85	-0.254	5.972	-2.554	1.00	0.00
ATOM	1273	1HB	CYS	A	85	1.477	6.152	-5.017	1.00	0.00
ATOM	1274	2HB	CYS	A	85	2.086	6.559	-3.417	1.00	0.00
ATOM	1275	HG	CYS	A	85	1.815	3.789	-4.512	1.00	0.00
ATOM	1276	N	ASN	A	86	-1.135	8.392	-2.716	1.00	0.00
ATOM	1277	CA	ASN	A	86	-1.352	9.828	-2.569	1.00	0.00
ATOM	1278	C	ASN	A	86	-0.206	10.490	-1.810	1.00	0.00
ATOM	1279	O	ASN	A	86	0.323	9.932	-0.850	1.00	0.00
ATOM	1280	CB	ASN	A	86	-2.675	10.091	-1.847	1.00	0.00
ATOM	1281	CG	ASN	A	86	-3.827	10.299	-2.809	1.00	0.00
ATOM	1282	OD1	ASN	A	86	-3.799	11.204	-3.644	1.00	0.00
ATOM	1283	ND2	ASN	A	86	-4.849	9.460	-2.697	1.00	0.00
ATOM	1284	H	ASN	A	86	-1.742	7.770	-2.262	1.00	0.00
ATOM	1285	HA	ASN	A	86	-1.405	10.256	-3.559	1.00	0.00
ATOM	1286	1HB	ASN	A	86	-2.906	9.248	-1.214	1.00	0.00
ATOM	1287	2HB	ASN	A	86	-2.575	10.978	-1.237	1.00	0.00
ATOM	1288	1HD2	ASN	A	86	-4.804	8.762	-2.010	1.00	0.00
ATOM	1289	2HD2	ASN	A	86	-5.609	9.569	-3.307	1.00	0.00
ATOM	1290	N	PHE	A	87	0.166	11.689	-2.249	1.00	0.00
ATOM	1291	CA	PHE	A	87	1.243	12.442	-1.615	1.00	0.00
ATOM	1292	C	PHE	A	87	0.788	13.862	-1.288	1.00	0.00
ATOM	1293	O	PHE	A	87	-0.166	14.369	-1.878	1.00	0.00
ATOM	1294	CB	PHE	A	87	2.472	12.485	-2.526	1.00	0.00
ATOM	1295	CG	PHE	A	87	3.427	11.347	-2.303	1.00	0.00
ATOM	1296	CD1	PHE	A	87	3.016	10.035	-2.470	1.00	0.00

ATOM	1297	CD2	PHE	A	87	4.739	11.592	-1.929	1.00	0.00
ATOM	1298	CE1	PHE	A	87	3.894	8.987	-2.265	1.00	0.00
ATOM	1299	CE2	PHE	A	87	5.621	10.548	-1.724	1.00	0.00
ATOM	1300	CZ	PHE	A	87	5.199	9.245	-1.892	1.00	0.00
ATOM	1301	H	PHE	A	87	-0.300	12.081	-3.017	1.00	0.00
ATOM	1302	HA	PHE	A	87	1.503	11.939	-0.695	1.00	0.00
ATOM	1303	1HB	PHE	A	87	2.148	12.449	-3.555	1.00	0.00
ATOM	1304	2HB	PHE	A	87	3.006	13.407	-2.354	1.00	0.00
ATOM	1305	HD1	PHE	A	87	1.996	9.832	-2.761	1.00	0.00
ATOM	1306	HD2	PHE	A	87	5.071	12.610	-1.797	1.00	0.00
ATOM	1307	HE1	PHE	A	87	3.560	7.968	-2.397	1.00	0.00
ATOM	1308	HE2	PHE	A	87	6.641	10.753	-1.432	1.00	0.00
ATOM	1309	HZ	PHE	A	87	5.887	8.428	-1.733	1.00	0.00
ATOM	1310	N	SER	A	88	1.478	14.500	-0.348	1.00	0.00
ATOM	1311	CA	SER	A	88	1.143	15.861	0.053	1.00	0.00
ATOM	1312	C	SER	A	88	1.847	16.880	-0.840	1.00	0.00
ATOM	1313	O	SER	A	88	2.790	16.542	-1.556	1.00	0.00
ATOM	1314	CB	SER	A	88	1.527	16.095	1.516	1.00	0.00
ATOM	1315	OG	SER	A	88	0.420	15.883	2.374	1.00	0.00
ATOM	1316	H	SER	A	88	2.229	14.044	0.086	1.00	0.00
ATOM	1317	HA	SER	A	88	0.075	15.985	-0.053	1.00	0.00
ATOM	1318	1HB	SER	A	88	2.316	15.412	1.792	1.00	0.00
ATOM	1319	2HB	SER	A	88	1.872	17.112	1.638	1.00	0.00
ATOM	1320	HG	SER	A	88	0.544	15.064	2.860	1.00	0.00
ATOM	1321	N	PRO	A	89	1.399	18.148	-0.808	1.00	0.00
ATOM	1322	CA	PRO	A	89	1.995	19.216	-1.618	1.00	0.00
ATOM	1323	C	PRO	A	89	3.450	19.476	-1.246	1.00	0.00

ATOM 1324	O	PRO A	89	4.263	19.839	-2.096	1.00	0.00
ATOM 1325	CB	PRO A	89	1.133	20.442	-1.296	1.00	0.00
ATOM 1326	CG	PRO A	89	0.484	20.128	0.007	1.00	0.00
ATOM 1327	CD	PRO A	89	0.284	18.639	0.019	1.00	0.00
ATOM 1328	HA	PRO A	89	1.930	18.993	-2.673	1.00	0.00
ATOM 1329	1HB	PRO A	89	1.762	21.317	-1.223	1.00	0.00
ATOM 1330	2HB	PRO A	89	0.400	20.584	-2.077	1.00	0.00
ATOM 1331	1HG	PRO A	89	1.129	20.425	0.820	1.00	0.00
ATOM 1332	2HG	PRO A	89	-0.467	20.634	0.076	1.00	0.00
ATOM 1333	1HD	PRO A	89	0.349	18.255	1.026	1.00	0.00
ATOM 1334	2HD	PRO A	89	-0.667	18.381	-0.425	1.00	0.00
ATOM 1335	N	LEU A	90	3.772	19.283	0.029	1.00	0.00
ATOM 1336	CA	LEU A	90	5.131	19.493	0.515	1.00	0.00
ATOM 1337	C	LEU A	90	6.098	18.489	-0.109	1.00	0.00
ATOM 1338	O	LEU A	90	7.305	18.724	-0.154	1.00	0.00
ATOM 1339	CB	LEU A	90	5.173	19.375	2.040	1.00	0.00
ATOM 1340	CG	LEU A	90	4.740	20.630	2.799	1.00	0.00
ATOM 1341	CD1	LEU A	90	3.224	20.710	2.880	1.00	0.00
ATOM 1342	CD2	LEU A	90	5.351	20.645	4.193	1.00	0.00
ATOM 1343	H	LEU A	90	3.080	18.991	0.658	1.00	0.00
ATOM 1344	HA	LEU A	90	5.433	20.489	0.232	1.00	0.00
ATOM 1345	1HB	LEU A	90	4.527	18.561	2.334	1.00	0.00
ATOM 1346	2HB	LEU A	90	6.183	19.135	2.334	1.00	0.00
ATOM 1347	HG	LEU A	90	5.093	21.503	2.270	1.00	0.00
ATOM 1348	1HD1	LEU A	90	2.937	21.648	3.333	1.00	0.00
ATOM 1349	2HD1	LEU A	90	2.851	19.892	3.478	1.00	0.00
ATOM 1350	3HD1	LEU A	90	2.807	20.648	1.886	1.00	0.00

ATOM	1351	1HD2	LEU	A	90	4.634	20.266	4.904	1.00	0.00
ATOM	1352	2HD2	LEU	A	90	5.620	21.656	4.457	1.00	0.00
ATOM	1353	3HD2	LEU	A	90	6.234	20.023	4.205	1.00	0.00
ATOM	1354	N	ALA	A	91	5.559	17.369	-0.587	1.00	0.00
ATOM	1355	CA	ALA	A	91	6.375	16.328	-1.208	1.00	0.00
ATOM	1356	C	ALA	A	91	7.317	16.909	-2.257	1.00	0.00
ATOM	1357	O	ALA	A	91	6.895	17.648	-3.146	1.00	0.00
ATOM	1358	CB	ALA	A	91	5.483	15.265	-1.831	1.00	0.00
ATOM	1359	H	ALA	A	91	4.591	17.238	-0.521	1.00	0.00
ATOM	1360	HA	ALA	A	91	6.962	15.860	-0.432	1.00	0.00
ATOM	1361	1HB	ALA	A	91	4.855	14.829	-1.068	1.00	0.00
ATOM	1362	2HB	ALA	A	91	6.097	14.496	-2.275	1.00	0.00
ATOM	1363	3HB	ALA	A	91	4.864	15.716	-2.592	1.00	0.00
ATOM	1364	N	ARG	A	92	8.597	16.569	-2.145	1.00	0.00
ATOM	1365	CA	ARG	A	92	9.602	17.055	-3.082	1.00	0.00
ATOM	1366	C	ARG	A	92	10.582	15.947	-3.451	1.00	0.00
ATOM	1367	O	ARG	A	92	11.066	15.218	-2.585	1.00	0.00
ATOM	1368	CB	ARG	A	92	10.360	18.240	-2.481	1.00	0.00
ATOM	1369	CG	ARG	A	92	10.777	19.280	-3.509	1.00	0.00
ATOM	1370	CD	ARG	A	92	9.576	20.034	-4.055	1.00	0.00
ATOM	1371	NE	ARG	A	92	9.803	20.512	-5.418	1.00	0.00
ATOM	1372	CZ	ARG	A	92	8.827	20.823	-6.267	1.00	0.00
ATOM	1373	NH1	ARG	A	92	7.556	20.713	-5.901	1.00	0.00
ATOM	1374	NH2	ARG	A	92	9.122	21.248	-7.489	1.00	0.00
ATOM	1375	H	ARG	A	92	8.872	15.976	-1.414	1.00	0.00
ATOM	1376	HA	ARG	A	92	9.093	17.381	-3.976	1.00	0.00
ATOM	1377	1HB	ARG	A	92	9.728	18.722	-1.749	1.00	0.00

ATOM 1378	2HB	ARG	A	92	11.249	17.873	-1.990	1.00	0.00
ATOM 1379	1HG	ARG	A	92	11.450	19.983	-3.042	1.00	0.00
ATOM 1380	2HG	ARG	A	92	11.282	18.782	-4.324	1.00	0.00
ATOM 1381	1HD	ARG	A	92	8.722	19.374	-4.053	1.00	0.00
ATOM 1382	2HD	ARG	A	92	9.377	20.881	-3.416	1.00	0.00
ATOM 1383	HE	ARG	A	92	10.732	20.604	-5.716	1.00	0.00
ATOM 1384	1HH1	ARG	A	92	7.325	20.395	-4.981	1.00	0.00
ATOM 1385	2HH1	ARG	A	92	6.828	20.949	-6.546	1.00	0.00
ATOM 1386	1HH2	ARG	A	92	10.077	21.334	-7.770	1.00	0.00
ATOM 1387	2HH2	ARG	A	92	8.389	21.482	-8.127	1.00	0.00
ATOM 1388	N	ARG	A	93	10.873	15.825	-4.742	1.00	0.00
ATOM 1389	CA	ARG	A	93	11.797	14.808	-5.227	1.00	0.00
ATOM 1390	C	ARG	A	93	11.272	13.406	-4.930	1.00	0.00
ATOM 1391	O	ARG	A	93	11.756	12.729	-4.022	1.00	0.00
ATOM 1392	CB	ARG	A	93	13.176	14.996	-4.591	1.00	0.00
ATOM 1393	CG	ARG	A	93	14.329	14.684	-5.531	1.00	0.00
ATOM 1394	CD	ARG	A	93	14.862	13.277	-5.314	1.00	0.00
ATOM 1395	NE	ARG	A	93	16.134	13.278	-4.595	1.00	0.00
ATOM 1396	CZ	ARG	A	93	16.851	12.183	-4.356	1.00	0.00
ATOM 1397	NH1	ARG	A	93	16.426	10.998	-4.774	1.00	0.00
ATOM 1398	NH2	ARG	A	93	17.999	12.273	-3.696	1.00	0.00
ATOM 1399	H	ARG	A	93	10.456	16.437	-5.386	1.00	0.00
ATOM 1400	HA	ARG	A	93	11.887	14.924	-6.297	1.00	0.00
ATOM 1401	1HB	ARG	A	93	13.272	16.022	-4.266	1.00	0.00
ATOM 1402	2HB	ARG	A	93	13.256	14.348	-3.730	1.00	0.00
ATOM 1403	1HG	ARG	A	93	13.983	14.773	-6.550	1.00	0.00
ATOM 1404	2HG	ARG	A	93	15.125	15.392	-5.356	1.00	0.00

ATOM 1405	1HD	ARG	A	93	14.138	12.715	-4.743	1.00	0.00
ATOM 1406	2HD	ARG	A	93	15.003	12.807	-6.276	1.00	0.00
ATOM 1407	HE	ARG	A	93	16.472	14.141	-4.275	1.00	0.00
ATOM 1408	1HH1	ARG	A	93	15.562	10.922	-5.273	1.00	0.00
ATOM 1409	2HH1	ARG	A	93	16.969	10.178	-4.591	1.00	0.00
ATOM 1410	1HH2	ARG	A	93	18.324	13.164	-3.378	1.00	0.00
ATOM 1411	2HH2	ARG	A	93	18.537	11.450	-3.515	1.00	0.00
ATOM 1412	N	VAL	A	94	10.280	12.975	-5.702	1.00	0.00
ATOM 1413	CA	VAL	A	94	9.690	11.653	-5.523	1.00	0.00
ATOM 1414	C	VAL	A	94	9.599	10.910	-6.852	1.00	0.00
ATOM 1415	O	VAL	A	94	9.491	11.526	-7.912	1.00	0.00
ATOM 1416	CB	VAL	A	94	8.284	11.741	-4.900	1.00	0.00
ATOM 1417	CG1	VAL	A	94	7.797	10.362	-4.483	1.00	0.00
ATOM 1418	CG2	VAL	A	94	8.280	12.696	-3.715	1.00	0.00
ATOM 1419	H	VAL	A	94	9.937	13.559	-6.410	1.00	0.00
ATOM 1420	HA	VAL	A	94	10.325	11.094	-4.851	1.00	0.00
ATOM 1421	HB	VAL	A	94	7.605	12.127	-5.647	1.00	0.00
ATOM 1422	1HG1	VAL	A	94	7.798	9.705	-5.340	1.00	0.00
ATOM 1423	2HG1	VAL	A	94	6.794	10.438	-4.089	1.00	0.00
ATOM 1424	3HG1	VAL	A	94	8.453	9.964	-3.722	1.00	0.00
ATOM 1425	1HG2	VAL	A	94	7.380	12.547	-3.136	1.00	0.00
ATOM 1426	2HG2	VAL	A	94	8.315	13.714	-4.072	1.00	0.00
ATOM 1427	3HG2	VAL	A	94	9.144	12.502	-3.095	1.00	0.00
ATOM 1428	N	ASP	A	95	9.642	9.584	-6.787	1.00	0.00
ATOM 1429	CA	ASP	A	95	9.565	8.757	-7.986	1.00	0.00
ATOM 1430	C	ASP	A	95	8.798	7.467	-7.711	1.00	0.00
ATOM 1431	O	ASP	A	95	8.679	7.037	-6.565	1.00	0.00

ATOM 1432	CB	ASP	A	95	10.970	8.430	-8.497	1.00	0.00
ATOM 1433	CG	ASP	A	95	11.516	9.505	-9.415	1.00	0.00
ATOM 1434	OD1	ASP	A	95	10.957	9.686	-10.517	1.00	0.00
ATOM 1435	OD2	ASP	A	95	12.504	10.167	-9.031	1.00	0.00
ATOM 1436	H	ASP	A	95	9.730	9.150	-5.913	1.00	0.00
ATOM 1437	HA	ASP	A	95	9.039	9.321	-8.743	1.00	0.00
ATOM 1438	1HB	ASP	A	95	11.638	8.328	-7.655	1.00	0.00
ATOM 1439	2HB	ASP	A	95	10.940	7.497	-9.041	1.00	0.00
ATOM 1440	N	ARG	A	96	8.280	6.856	-8.771	1.00	0.00
ATOM 1441	CA	ARG	A	96	7.526	5.615	-8.644	1.00	0.00
ATOM 1442	C	ARG	A	96	8.382	4.516	-8.021	1.00	0.00
ATOM 1443	O	ARG	A	96	7.868	3.618	-7.355	1.00	0.00
ATOM 1444	CB	ARG	A	96	7.013	5.163	-10.013	1.00	0.00
ATOM 1445	CG	ARG	A	96	8.071	5.201	-11.102	1.00	0.00
ATOM 1446	CD	ARG	A	96	7.614	4.464	-12.351	1.00	0.00
ATOM 1447	NE	ARG	A	96	8.653	4.430	-13.377	1.00	0.00
ATOM 1448	CZ	ARG	A	96	8.534	3.781	-14.533	1.00	0.00
ATOM 1449	NH1	ARG	A	96	7.424	3.111	-14.814	1.00	0.00
ATOM 1450	NH2	ARG	A	96	9.529	3.804	-15.411	1.00	0.00
ATOM 1451	H	ARG	A	96	8.410	7.249	-9.660	1.00	0.00
ATOM 1452	HA	ARG	A	96	6.681	5.805	-7.999	1.00	0.00
ATOM 1453	1HB	ARG	A	96	6.648	4.150	-9.931	1.00	0.00
ATOM 1454	2HB	ARG	A	96	6.197	5.806	-10.310	1.00	0.00
ATOM 1455	1HG	ARG	A	96	8.274	6.230	-11.359	1.00	0.00
ATOM 1456	2HG	ARG	A	96	8.972	4.737	-10.731	1.00	0.00
ATOM 1457	1HD	ARG	A	96	7.355	3.451	-12.082	1.00	0.00
ATOM 1458	2HD	ARG	A	96	6.743	4.963	-12.750	1.00	0.00

ATOM	1459	HE	ARG	A	96	9.485	4.917	-13.196	1.00	0.00
ATOM	1460	1HH1	ARG	A	96	6.671	3.090	-14.158	1.00	0.00
ATOM	1461	2HH1	ARG	A	96	7.342	2.625	-15.685	1.00	0.00
ATOM	1462	1HH2	ARG	A	96	10.367	4.308	-15.204	1.00	0.00
ATOM	1463	2HH2	ARG	A	96	9.439	3.316	-16.279	1.00	0.00
ATOM	1464	N	VAL	A	97	9.690	4.595	-8.242	1.00	0.00
ATOM	1465	CA	VAL	A	97	10.617	3.607	-7.701	1.00	0.00
ATOM	1466	C	VAL	A	97	10.754	3.752	-6.189	1.00	0.00
ATOM	1467	O	VAL	A	97	10.989	2.772	-5.482	1.00	0.00
ATOM	1468	CB	VAL	A	97	12.012	3.733	-8.345	1.00	0.00
ATOM	1469	CG1	VAL	A	97	12.914	2.594	-7.896	1.00	0.00
ATOM	1470	CG2	VAL	A	97	11.901	3.767	-9.863	1.00	0.00
ATOM	1471	H	VAL	A	97	10.041	5.334	-8.781	1.00	0.00
ATOM	1472	HA	VAL	A	97	10.227	2.626	-7.926	1.00	0.00
ATOM	1473	HB	VAL	A	97	12.455	4.662	-8.018	1.00	0.00
ATOM	1474	1HG1	VAL	A	97	13.947	2.881	-8.022	1.00	0.00
ATOM	1475	2HG1	VAL	A	97	12.710	1.716	-8.491	1.00	0.00
ATOM	1476	3HG1	VAL	A	97	12.725	2.375	-6.855	1.00	0.00
ATOM	1477	1HG2	VAL	A	97	10.886	4.001	-10.146	1.00	0.00
ATOM	1478	2HG2	VAL	A	97	12.173	2.802	-10.265	1.00	0.00
ATOM	1479	3HG2	VAL	A	97	12.567	4.521	-10.256	1.00	0.00
ATOM	1480	N	ALA	A	98	10.606	4.979	-5.700	1.00	0.00
ATOM	1481	CA	ALA	A	98	10.716	5.250	-4.271	1.00	0.00
ATOM	1482	C	ALA	A	98	9.648	4.496	-3.486	1.00	0.00
ATOM	1483	O	ALA	A	98	9.961	3.639	-2.658	1.00	0.00
ATOM	1484	CB	ALA	A	98	10.610	6.744	-4.009	1.00	0.00
ATOM	1485	H	ALA	A	98	10.421	5.719	-6.314	1.00	0.00



ATOM 1486	HA	ALA A	98	11.690	4.919	-3.943	1.00	0.00
ATOM 1487	1HB	ALA A	98	9.990	7.201	-4.766	1.00	0.00
ATOM 1488	2HB	ALA A	98	11.596	7.184	-4.036	1.00	0.00
ATOM 1489	3HB	ALA A	98	10.169	6.908	-3.037	1.00	0.00
ATOM 1490	N	ILE A	99	8.386	4.817	-3.750	1.00	0.00
ATOM 1491	CA	ILE A	99	7.273	4.169	-3.066	1.00	0.00
ATOM 1492	C	ILE A	99	7.245	2.671	-3.361	1.00	0.00
ATOM 1493	O	ILE A	99	6.697	1.887	-2.585	1.00	0.00
ATOM 1494	CB	ILE A	99	5.921	4.790	-3.473	1.00	0.00
ATOM 1495	CG1	ILE A	99	5.954	6.307	-3.279	1.00	0.00
ATOM 1496	CG2	ILE A	99	4.787	4.174	-2.666	1.00	0.00
ATOM 1497	CD1	ILE A	99	5.066	7.060	-4.247	1.00	0.00
ATOM 1498	H	ILE A	99	8.199	5.507	-4.421	1.00	0.00
ATOM 1499	HA	ILE A	99	7.407	4.313	-2.004	1.00	0.00
ATOM 1500	HB	ILE A	99	5.748	4.572	-4.516	1.00	0.00
ATOM 1501	1HG1	ILE A	99	5.625	6.542	-2.278	1.00	0.00
ATOM 1502	2HG1	ILE A	99	6.966	6.660	-3.412	1.00	0.00
ATOM 1503	1HG2	ILE A	99	4.038	4.925	-2.466	1.00	0.00
ATOM 1504	2HG2	ILE A	99	5.175	3.796	-1.732	1.00	0.00
ATOM 1505	3HG2	ILE A	99	4.345	3.364	-3.227	1.00	0.00
ATOM 1506	1HD1	ILE A	99	4.030	6.866	-4.010	1.00	0.00
ATOM 1507	2HD1	ILE A	99	5.272	6.731	-5.255	1.00	0.00
ATOM 1508	3HD1	ILE A	99	5.262	8.118	-4.166	1.00	0.00
ATOM 1509	N	TYR A	100	7.840	2.278	-4.485	1.00	0.00
ATOM 1510	CA	TYR A	100	7.880	0.874	-4.877	1.00	0.00
ATOM 1511	C	TYR A	100	8.857	0.093	-4.003	1.00	0.00
ATOM 1512	O	TYR A	100	8.550	-1.008	-3.545	1.00	0.00

ATOM 1513	CB	TYR A 100	8.281	0.745	-6.348	1.00	0.00
ATOM 1514	CG	TYR A 100	8.123	-0.654	-6.898	1.00	0.00
ATOM 1515	CD1	TYR A 100	9.231	-1.464	-7.117	1.00	0.00
ATOM 1516	CD2	TYR A 100	6.866	-1.166	-7.197	1.00	0.00
ATOM 1517	CE1	TYR A 100	9.090	-2.744	-7.620	1.00	0.00
ATOM 1518	CE2	TYR A 100	6.718	-2.445	-7.699	1.00	0.00
ATOM 1519	CZ	TYR A 100	7.833	-3.229	-7.909	1.00	0.00
ATOM 1520	OH	TYR A 100	7.688	-4.503	-8.409	1.00	0.00
ATOM 1521	H	TYR A 100	8.259	2.948	-5.064	1.00	0.00
ATOM 1522	HA	TYR A 100	6.890	0.465	-4.746	1.00	0.00
ATOM 1523	1HB	TYR A 100	7.666	1.405	-6.941	1.00	0.00
ATOM 1524	2HB	TYR A 100	9.317	1.031	-6.458	1.00	0.00
ATOM 1525	HD1	TYR A 100	10.214	-1.081	-6.889	1.00	0.00
ATOM 1526	HD2	TYR A 100	5.995	-0.549	-7.033	1.00	0.00
ATOM 1527	HE1	TYR A 100	9.963	-3.358	-7.782	1.00	0.00
ATOM 1528	HE2	TYR A 100	5.732	-2.825	-7.926	1.00	0.00
ATOM 1529	HH	TYR A 100	7.016	-4.970	-7.907	1.00	0.00
ATOM 1530	N	GLU A 101	10.033	0.669	-3.779	1.00	0.00
ATOM 1531	CA	GLU A 101	11.055	0.025	-2.961	1.00	0.00
ATOM 1532	C	GLU A 101	10.691	0.088	-1.481	1.00	0.00
ATOM 1533	O	GLU A 101	10.793	-0.907	-0.763	1.00	0.00
ATOM 1534	CB	GLU A 101	12.414	0.687	-3.192	1.00	0.00
ATOM 1535	CG	GLU A 101	13.219	0.050	-4.313	1.00	0.00
ATOM 1536	CD	GLU A 101	14.683	-0.120	-3.957	1.00	0.00
ATOM 1537	OE1	GLU A 101	14.971	-0.578	-2.831	1.00	0.00
ATOM 1538	OE2	GLU A 101	15.541	0.206	-4.803	1.00	0.00
ATOM 1539	H	GLU A 101	10.219	1.546	-4.172	1.00	0.00

ATOM 1540	HA	GLU A 101	11.114	-1.011	-3.260	1.00	0.00
ATOM 1541	1HB	GLU A 101	12.258	1.727	-3.436	1.00	0.00
ATOM 1542	2HB	GLU A 101	12.993	0.623	-2.281	1.00	0.00
ATOM 1543	1HG	GLU A 101	12.802	-0.923	-4.529	1.00	0.00
ATOM 1544	2HG	GLU A 101	13.147	0.675	-5.190	1.00	0.00
ATOM 1545	N	GLU A 102	10.265	1.264	-1.031	1.00	0.00
ATOM 1546	CA	GLU A 102	9.885	1.459	0.363	1.00	0.00
ATOM 1547	C	GLU A 102	8.759	0.508	0.762	1.00	0.00
ATOM 1548	O	GLU A 102	8.651	0.112	1.922	1.00	0.00
ATOM 1549	CB	GLU A 102	9.453	2.908	0.596	1.00	0.00
ATOM 1550	CG	GLU A 102	10.555	3.786	1.166	1.00	0.00
ATOM 1551	CD	GLU A 102	11.495	4.308	0.097	1.00	0.00
ATOM 1552	OE1	GLU A 102	11.869	3.524	-0.800	1.00	0.00
ATOM 1553	OE2	GLU A 102	11.857	5.503	0.158	1.00	0.00
ATOM 1554	H	GLU A 102	10.204	2.020	-1.653	1.00	0.00
ATOM 1555	HA	GLU A 102	10.750	1.248	0.974	1.00	0.00
ATOM 1556	1HB	GLU A 102	9.136	3.332	-0.346	1.00	0.00
ATOM 1557	2HB	GLU A 102	8.622	2.918	1.284	1.00	0.00
ATOM 1558	1HG	GLU A 102	10.103	4.628	1.669	1.00	0.00
ATOM 1559	2HG	GLU A 102	11.126	3.208	1.877	1.00	0.00
ATOM 1560	N	PHE A 103	7.925	0.148	-0.208	1.00	0.00
ATOM 1561	CA	PHE A 103	6.807	-0.755	0.044	1.00	0.00
ATOM 1562	C	PHE A 103	7.285	-2.200	0.154	1.00	0.00
ATOM 1563	O	PHE A 103	6.894	-2.924	1.068	1.00	0.00
ATOM 1564	CB	PHE A 103	5.769	-0.635	-1.074	1.00	0.00
ATOM 1565	CG	PHE A 103	4.532	-1.455	-0.837	1.00	0.00
ATOM 1566	CD1	PHE A 103	4.155	-2.438	-1.737	1.00	0.00

ATOM	1567	CD2	PHE A 103	3.749	-1.242	0.286	1.00	0.00
ATOM	1568	CE1	PHE A 103	3.017	-3.193	-1.522	1.00	0.00
ATOM	1569	CE2	PHE A 103	2.611	-1.994	0.506	1.00	0.00
ATOM	1570	CZ	PHE A 103	2.245	-2.972	-0.399	1.00	0.00
ATOM	1571	H	PHE A 103	8.063	0.497	-1.112	1.00	0.00
ATOM	1572	HA	PHE A 103	6.351	-0.466	0.978	1.00	0.00
ATOM	1573	1HB	PHE A 103	5.469	0.398	-1.167	1.00	0.00
ATOM	1574	2HB	PHE A 103	6.212	-0.961	-2.003	1.00	0.00
ATOM	1575	HD1	PHE A 103	4.758	-2.613	-2.615	1.00	0.00
ATOM	1576	HD2	PHE A 103	4.034	-0.479	0.995	1.00	0.00
ATOM	1577	HE1	PHE A 103	2.734	-3.956	-2.232	1.00	0.00
ATOM	1578	HE2	PHE A 103	2.009	-1.819	1.385	1.00	0.00
ATOM	1579	HZ	PHE A 103	1.356	-3.561	-0.229	1.00	0.00
ATOM	1580	N	LEU A 104	8.130	-2.612	-0.785	1.00	0.00
ATOM	1581	CA	LEU A 104	8.659	-3.971	-0.795	1.00	0.00
ATOM	1582	C	LEU A 104	9.516	-4.236	0.439	1.00	0.00
ATOM	1583	O	LEU A 104	9.510	-5.340	0.984	1.00	0.00
ATOM	1584	CB	LEU A 104	9.482	-4.209	-2.062	1.00	0.00
ATOM	1585	CG	LEU A 104	8.715	-4.033	-3.373	1.00	0.00
ATOM	1586	CD1	LEU A 104	9.676	-3.774	-4.523	1.00	0.00
ATOM	1587	CD2	LEU A 104	7.858	-5.258	-3.658	1.00	0.00
ATOM	1588	H	LEU A 104	8.404	-1.988	-1.490	1.00	0.00
ATOM	1589	HA	LEU A 104	7.821	-4.652	-0.789	1.00	0.00
ATOM	1590	1HB	LEU A 104	10.315	-3.522	-2.060	1.00	0.00
ATOM	1591	2HB	LEU A 104	9.868	-5.217	-2.031	1.00	0.00
ATOM	1592	HG	LEU A 104	8.060	-3.179	-3.288	1.00	0.00
ATOM	1593	1HD1	LEU A 104	9.845	-2.711	-4.619	1.00	0.00

ATOM	1594	2HD1	LEU	A	104	9.251	-4.154	-5.441	1.00	0.00
ATOM	1595	3HD1	LEU	A	104	10.614	-4.272	-4.328	1.00	0.00
ATOM	1596	1HD2	LEU	A	104	8.430	-6.151	-3.454	1.00	0.00
ATOM	1597	2HD2	LEU	A	104	7.556	-5.253	-4.695	1.00	0.00
ATOM	1598	3HD2	LEU	A	104	6.982	-5.238	-3.028	1.00	0.00
ATOM	1599	N	ARG	A	105	10.252	-3.220	0.874	1.00	0.00
ATOM	1600	CA	ARG	A	105	11.115	-3.347	2.044	1.00	0.00
ATOM	1601	C	ARG	A	105	10.296	-3.563	3.313	1.00	0.00
ATOM	1602	O	ARG	A	105	10.766	-4.180	4.269	1.00	0.00
ATOM	1603	CB	ARG	A	105	11.992	-2.101	2.193	1.00	0.00
ATOM	1604	CG	ARG	A	105	13.398	-2.278	1.643	1.00	0.00
ATOM	1605	CD	ARG	A	105	14.115	-0.945	1.504	1.00	0.00
ATOM	1606	NE	ARG	A	105	14.937	-0.641	2.673	1.00	0.00
ATOM	1607	CZ	ARG	A	105	15.917	0.260	2.676	1.00	0.00
ATOM	1608	NH1	ARG	A	105	16.199	0.945	1.575	1.00	0.00
ATOM	1609	NH2	ARG	A	105	16.617	0.475	3.782	1.00	0.00
ATOM	1610	H	ARG	A	105	10.216	-2.364	0.398	1.00	0.00
ATOM	1611	HA	ARG	A	105	11.752	-4.206	1.891	1.00	0.00
ATOM	1612	1HB	ARG	A	105	11.525	-1.280	1.670	1.00	0.00
ATOM	1613	2HB	ARG	A	105	12.069	-1.851	3.241	1.00	0.00
ATOM	1614	1HG	ARG	A	105	13.961	-2.909	2.314	1.00	0.00
ATOM	1615	2HG	ARG	A	105	13.337	-2.746	0.671	1.00	0.00
ATOM	1616	1HD	ARG	A	105	14.748	-0.979	0.631	1.00	0.00
ATOM	1617	2HD	ARG	A	105	13.377	-0.165	1.383	1.00	0.00
ATOM	1618	HE	ARG	A	105	14.750	-1.134	3.499	1.00	0.00
ATOM	1619	1HH1	ARG	A	105	15.676	0.787	0.738	1.00	0.00
ATOM	1620	2HH1	ARG	A	105	16.937	1.621	1.582	1.00	0.00

ATOM 1621	1HH2	ARG	A	105	16.407	-0.038	4.613	1.00	0.00
ATOM 1622	2HH2	ARG	A	105	17.353	1.152	3.783	1.00	0.00
ATOM 1623	N	MET	A	106	9.069	-3.050	3.318	1.00	0.00
ATOM 1624	CA	MET	A	106	8.190	-3.186	4.474	1.00	0.00
ATOM 1625	C	MET	A	106	7.277	-4.401	4.334	1.00	0.00
ATOM 1626	O	MET	A	106	6.826	-4.965	5.331	1.00	0.00
ATOM 1627	CB	MET	A	106	7.348	-1.921	4.650	1.00	0.00
ATOM 1628	CG	MET	A	106	6.777	-1.764	6.051	1.00	0.00
ATOM 1629	SD	MET	A	106	7.545	-0.418	6.971	1.00	0.00
ATOM 1630	CE	MET	A	106	6.604	0.983	6.372	1.00	0.00
ATOM 1631	H	MET	A	106	8.750	-2.565	2.529	1.00	0.00
ATOM 1632	HA	MET	A	106	8.810	-3.316	5.347	1.00	0.00
ATOM 1633	1HB	MET	A	106	7.962	-1.060	4.434	1.00	0.00
ATOM 1634	2HB	MET	A	106	6.525	-1.951	3.950	1.00	0.00
ATOM 1635	1HG	MET	A	106	5.718	-1.568	5.973	1.00	0.00
ATOM 1636	2HG	MET	A	106	6.931	-2.686	6.592	1.00	0.00
ATOM 1637	1HE	MET	A	106	6.341	0.824	5.337	1.00	0.00
ATOM 1638	2HE	MET	A	106	7.198	1.880	6.459	1.00	0.00
ATOM 1639	3HE	MET	A	106	5.704	1.090	6.960	1.00	0.00
ATOM 1640	N	THR	A	107	7.006	-4.799	3.096	1.00	0.00
ATOM 1641	CA	THR	A	107	6.143	-5.945	2.835	1.00	0.00
ATOM 1642	C	THR	A	107	6.960	-7.213	2.604	1.00	0.00
ATOM 1643	O	THR	A	107	6.505	-8.143	1.937	1.00	0.00
ATOM 1644	CB	THR	A	107	5.253	-5.672	1.621	1.00	0.00
ATOM 1645	OG1	THR	A	107	6.038	-5.356	0.486	1.00	0.00
ATOM 1646	CG2	THR	A	107	4.282	-4.534	1.838	1.00	0.00
ATOM 1647	H	THR	A	107	7.392	-4.310	2.339	1.00	0.00

ATOM	1648	HA	THR	A	107	5.516	-6.090	3.701	1.00	0.00
ATOM	1649	HB	THR	A	107	4.679	-6.560	1.401	1.00	0.00
ATOM	1650	HG1	THR	A	107	6.433	-4.488	0.600	1.00	0.00
ATOM	1651	1HG2	THR	A	107	3.379	-4.718	1.275	1.00	0.00
ATOM	1652	2HG2	THR	A	107	4.730	-3.608	1.506	1.00	0.00
ATOM	1653	3HG2	THR	A	107	4.043	-4.459	2.889	1.00	0.00
ATOM	1654	N	HIS	A	108	8.167	-7.249	3.161	1.00	0.00
ATOM	1655	CA	HIS	A	108	9.045	-8.406	3.016	1.00	0.00
ATOM	1656	C	HIS	A	108	9.233	-8.775	1.547	1.00	0.00
ATOM	1657	O	HIS	A	108	8.796	-9.836	1.100	1.00	0.00
ATOM	1658	CB	HIS	A	108	8.477	-9.599	3.787	1.00	0.00
ATOM	1659	CG	HIS	A	108	9.526	-10.545	4.285	1.00	0.00
ATOM	1660	ND1	HIS	A	108	9.552	-11.030	5.575	1.00	0.00
ATOM	1661	CD2	HIS	A	108	10.591	-11.098	3.656	1.00	0.00
ATOM	1662	CE1	HIS	A	108	10.588	-11.838	5.719	1.00	0.00
ATOM	1663	NE2	HIS	A	108	11.233	-11.897	4.569	1.00	0.00
ATOM	1664	H	HIS	A	108	8.475	-6.479	3.684	1.00	0.00
ATOM	1665	HA	HIS	A	108	10.006	-8.145	3.434	1.00	0.00
ATOM	1666	1HB	HIS	A	108	7.925	-9.238	4.642	1.00	0.00
ATOM	1667	2HB	HIS	A	108	7.810	-10.151	3.141	1.00	0.00
ATOM	1668	HD1	HIS	A	108	8.909	-10.813	6.282	1.00	0.00
ATOM	1669	HD2	HIS	A	108	10.882	-10.938	2.626	1.00	0.00
ATOM	1670	HE1	HIS	A	108	10.857	-12.364	6.623	1.00	0.00
ATOM	1671	HE2	HIS	A	108	11.984	-12.494	4.373	1.00	0.00
ATOM	1672	N	ASN	A	109	9.886	-7.891	0.799	1.00	0.00
ATOM	1673	CA	ASN	A	109	10.133	-8.123	-0.620	1.00	0.00
ATOM	1674	C	ASN	A	109	8.822	-8.251	-1.389	1.00	0.00

ATOM 1675	O	ASN A 109	8.727	-9.015	-2.350	1.00	0.00
ATOM 1676	CB	ASN A 109	10.975	-9.385	-0.812	1.00	0.00
ATOM 1677	CG	ASN A 109	11.521	-9.510	-2.220	1.00	0.00
ATOM 1678	OD1	ASN A 109	12.481	-8.833	-2.588	1.00	0.00
ATOM 1679	ND2	ASN A 109	10.908	-10.378	-3.017	1.00	0.00
ATOM 1680	H	ASN A 109	10.211	-7.063	1.211	1.00	0.00
ATOM 1681	HA	ASN A 109	10.680	-7.275	-1.003	1.00	0.00
ATOM 1682	1HB	ASN A 109	11.807	-9.363	-0.124	1.00	0.00
ATOM 1683	2HB	ASN A 109	10.365	-10.252	-0.603	1.00	0.00
ATOM 1684	1HD2	ASN A 109	10.150	-10.882	-2.657	1.00	0.00
ATOM 1685	2HD2	ASN A 109	11.240	-10.478	-3.934	1.00	0.00
ATOM 1686	N	GLY A 110	7.813	-7.496	-0.963	1.00	0.00
ATOM 1687	CA	GLY A 110	6.522	-7.541	-1.625	1.00	0.00
ATOM 1688	C	GLY A 110	5.932	-8.937	-1.658	1.00	0.00
ATOM 1689	O	GLY A 110	5.417	-9.376	-2.687	1.00	0.00
ATOM 1690	H	GLY A 110	7.947	-6.906	-0.193	1.00	0.00
ATOM 1691	1HA	GLY A 110	5.840	-6.886	-1.105	1.00	0.00
ATOM 1692	2HA	GLY A 110	6.638	-7.187	-2.639	1.00	0.00
ATOM 1693	N	THR A 111	6.007	-9.636	-0.531	1.00	0.00
ATOM 1694	CA	THR A 111	5.477	-10.992	-0.437	1.00	0.00
ATOM 1695	C	THR A 111	4.312	-11.062	0.547	1.00	0.00
ATOM 1696	O	THR A 111	3.410	-11.885	0.396	1.00	0.00
ATOM 1697	CB	THR A 111	6.578	-11.963	-0.009	1.00	0.00
ATOM 1698	OG1	THR A 111	7.072	-11.626	1.275	1.00	0.00
ATOM 1699	CG2	THR A 111	7.754	-11.992	-0.961	1.00	0.00
ATOM 1700	H	THR A 111	6.430	-9.232	0.255	1.00	0.00
ATOM 1701	HA	THR A 111	5.121	-11.277	-1.416	1.00	0.00



ATOM 1702	HB	THR A 111	6.165	-12.960	0.038	1.00	0.00
ATOM 1703	HG1	THR A 111	7.176	-12.423	1.798	1.00	0.00
ATOM 1704	1HG2	THR A 111	7.953	-13.011	-1.256	1.00	0.00
ATOM 1705	2HG2	THR A 111	8.624	-11.582	-0.470	1.00	0.00
ATOM 1706	3HG2	THR A 111	7.523	-11.403	-1.836	1.00	0.00
ATOM 1707	N	GLN A 112	4.339	-10.197	1.557	1.00	0.00
ATOM 1708	CA	GLN A 112	3.284	-10.170	2.564	1.00	0.00
ATOM 1709	C	GLN A 112	3.024	-8.746	3.049	1.00	0.00
ATOM 1710	O	GLN A 112	3.945	-8.041	3.461	1.00	0.00
ATOM 1711	CB	GLN A 112	3.661	-11.068	3.747	1.00	0.00
ATOM 1712	CG	GLN A 112	2.675	-11.013	4.905	1.00	0.00
ATOM 1713	CD	GLN A 112	1.750	-12.213	4.941	1.00	0.00
ATOM 1714	OE1	GLN A 112	0.737	-12.252	4.245	1.00	0.00
ATOM 1715	NE2	GLN A 112	2.093	-13.201	5.760	1.00	0.00
ATOM 1716	H	GLN A 112	5.085	-9.566	1.628	1.00	0.00
ATOM 1717	HA	GLN A 112	2.383	-10.551	2.108	1.00	0.00
ATOM 1718	1HB	GLN A 112	3.720	-12.090	3.401	1.00	0.00
ATOM 1719	2HB	GLN A 112	4.631	-10.768	4.114	1.00	0.00
ATOM 1720	1HG	GLN A 112	3.230	-10.979	5.831	1.00	0.00
ATOM 1721	2HG	GLN A 112	2.077	-10.120	4.813	1.00	0.00
ATOM 1722	1HE2	GLN A 112	2.914	-13.102	6.286	1.00	0.00
ATOM 1723	2HE2	GLN A 112	1.511	-13.988	5.805	1.00	0.00
ATOM 1724	N	LEU A 113	1.760	-8.336	3.006	1.00	0.00
ATOM 1725	CA	LEU A 113	1.370	-7.004	3.450	1.00	0.00
ATOM 1726	C	LEU A 113	0.681	-7.078	4.809	1.00	0.00
ATOM 1727	O	LEU A 113	-0.539	-7.216	4.890	1.00	0.00
ATOM 1728	CB	LEU A 113	0.444	-6.348	2.420	1.00	0.00

ATOM 1729	CG	LEU A 113	0.030	-4.903	2.724	1.00	0.00
ATOM 1730	CD1	LEU A 113	-1.119	-4.869	3.719	1.00	0.00
ATOM 1731	CD2	LEU A 113	1.212	-4.099	3.248	1.00	0.00
ATOM 1732	H	LEU A 113	1.071	-8.949	2.673	1.00	0.00
ATOM 1733	HA	LEU A 113	2.268	-6.410	3.546	1.00	0.00
ATOM 1734	1HB	LEU A 113	0.943	-6.361	1.462	1.00	0.00
ATOM 1735	2HB	LEU A 113	-0.453	-6.945	2.346	1.00	0.00
ATOM 1736	HG	LEU A 113	-0.310	-4.437	1.811	1.00	0.00
ATOM 1737	1HD1	LEU A 113	-0.728	-4.924	4.723	1.00	0.00
ATOM 1738	2HD1	LEU A 113	-1.773	-5.711	3.541	1.00	0.00
ATOM 1739	3HD1	LEU A 113	-1.674	-3.951	3.597	1.00	0.00
ATOM 1740	1HD2	LEU A 113	1.645	-4.607	4.097	1.00	0.00
ATOM 1741	2HD2	LEU A 113	0.875	-3.117	3.550	1.00	0.00
ATOM 1742	3HD2	LEU A 113	1.954	-4.000	2.470	1.00	0.00
ATOM 1743	N	LEU A 114	1.475	-6.997	5.873	1.00	0.00
ATOM 1744	CA	LEU A 114	0.948	-7.063	7.233	1.00	0.00
ATOM 1745	C	LEU A 114	0.266	-8.404	7.489	1.00	0.00
ATOM 1746	O	LEU A 114	0.848	-9.301	8.101	1.00	0.00
ATOM 1747	CB	LEU A 114	-0.034	-5.916	7.485	1.00	0.00
ATOM 1748	CG	LEU A 114	0.606	-4.536	7.649	1.00	0.00
ATOM 1749	CD1	LEU A 114	-0.440	-3.506	8.053	1.00	0.00
ATOM 1750	CD2	LEU A 114	1.730	-4.587	8.675	1.00	0.00
ATOM 1751	H	LEU A 114	2.441	-6.895	5.741	1.00	0.00
ATOM 1752	HA	LEU A 114	1.782	-6.965	7.913	1.00	0.00
ATOM 1753	1HB	LEU A 114	-0.725	-5.874	6.655	1.00	0.00
ATOM 1754	2HB	LEU A 114	-0.592	-6.139	8.383	1.00	0.00
ATOM 1755	HG	LEU A 114	1.028	-4.228	6.704	1.00	0.00

ATOM 1756	1HD1	LEU	A	114	-1.425	-3.941	7.973	1.00	0.00
ATOM 1757	2HD1	LEU	A	114	-0.372	-2.649	7.399	1.00	0.00
ATOM 1758	3HD1	LEU	A	114	-0.266	-3.194	9.072	1.00	0.00
ATOM 1759	1HD2	LEU	A	114	1.809	-3.631	9.170	1.00	0.00
ATOM 1760	2HD2	LEU	A	114	2.660	-4.813	8.177	1.00	0.00
ATOM 1761	3HD2	LEU	A	114	1.517	-5.353	9.405	1.00	0.00
ATOM 1762	N	ASN	A	115	-0.969	-8.538	7.016	1.00	0.00
ATOM 1763	CA	ASN	A	115	-1.728	-9.770	7.194	1.00	0.00
ATOM 1764	C	ASN	A	115	-2.393	-10.192	5.886	1.00	0.00
ATOM 1765	O	ASN	A	115	-3.460	-10.804	5.889	1.00	0.00
ATOM 1766	CB	ASN	A	115	-2.784	-9.591	8.288	1.00	0.00
ATOM 1767	CG	ASN	A	115	-2.581	-10.543	9.449	1.00	0.00
ATOM 1768	OD1	ASN	A	115	-2.461	-10.121	10.600	1.00	0.00
ATOM 1769	ND2	ASN	A	115	-2.540	-11.838	9.154	1.00	0.00
ATOM 1770	H	ASN	A	115	-1.380	-7.789	6.536	1.00	0.00
ATOM 1771	HA	ASN	A	115	-1.037	-10.543	7.496	1.00	0.00
ATOM 1772	1HB	ASN	A	115	-2.735	-8.579	8.664	1.00	0.00
ATOM 1773	2HB	ASN	A	115	-3.764	-9.766	7.869	1.00	0.00
ATOM 1774	1HD2	ASN	A	115	-2.643	-12.101	8.216	1.00	0.00
ATOM 1775	2HD2	ASN	A	115	-2.410	-12.476	9.886	1.00	0.00
ATOM 1776	N	PHE	A	116	-1.753	-9.858	4.769	1.00	0.00
ATOM 1777	CA	PHE	A	116	-2.281	-10.202	3.453	1.00	0.00
ATOM 1778	C	PHE	A	116	-1.164	-10.668	2.525	1.00	0.00
ATOM 1779	O	PHE	A	116	-0.439	-9.854	1.953	1.00	0.00
ATOM 1780	CB	PHE	A	116	-3.002	-9.000	2.839	1.00	0.00
ATOM 1781	CG	PHE	A	116	-4.402	-8.814	3.350	1.00	0.00
ATOM 1782	CD1	PHE	A	116	-5.483	-9.329	2.652	1.00	0.00

ATOM 1783	CD2	PHE A 116	-4.638	-8.124	4.528	1.00	0.00
ATOM 1784	CE1	PHE A 116	-6.772	-9.160	3.120	1.00	0.00
ATOM 1785	CE2	PHE A 116	-5.925	-7.951	5.001	1.00	0.00
ATOM 1786	CZ	PHE A 116	-6.994	-8.469	4.296	1.00	0.00
ATOM 1787	H	PHE A 116	-0.906	-9.370	4.830	1.00	0.00
ATOM 1788	HA	PHE A 116	-2.988	-11.008	3.580	1.00	0.00
ATOM 1789	1HB	PHE A 116	-2.446	-8.103	3.063	1.00	0.00
ATOM 1790	2HB	PHE A 116	-3.053	-9.129	1.767	1.00	0.00
ATOM 1791	HD1	PHE A 116	-5.310	-9.870	1.733	1.00	0.00
ATOM 1792	HD2	PHE A 116	-3.803	-7.718	5.081	1.00	0.00
ATOM 1793	HE1	PHE A 116	-7.606	-9.565	2.567	1.00	0.00
ATOM 1794	HE2	PHE A 116	-6.095	-7.410	5.921	1.00	0.00
ATOM 1795	HZ	PHE A 116	-8.000	-8.335	4.663	1.00	0.00
ATOM 1796	N	THR A 117	-1.031	-11.983	2.382	1.00	0.00
ATOM 1797	CA	THR A 117	-0.002	-12.558	1.524	1.00	0.00
ATOM 1798	C	THR A 117	-0.245	-12.194	0.063	1.00	0.00
ATOM 1799	O	THR A 117	-1.262	-12.569	-0.520	1.00	0.00
ATOM 1800	CB	THR A 117	0.031	-14.078	1.682	1.00	0.00
ATOM 1801	OG1	THR A 117	-1.262	-14.581	1.968	1.00	0.00
ATOM 1802	CG2	THR A 117	0.960	-14.548	2.780	1.00	0.00
ATOM 1803	H	THR A 117	-1.640	-12.580	2.865	1.00	0.00
ATOM 1804	HA	THR A 117	0.951	-12.152	1.830	1.00	0.00
ATOM 1805	HB	THR A 117	0.368	-14.519	0.754	1.00	0.00
ATOM 1806	HG1	THR A 117	-1.513	-15.220	1.296	1.00	0.00
ATOM 1807	1HG2	THR A 117	0.475	-14.427	3.738	1.00	0.00
ATOM 1808	2HG2	THR A 117	1.866	-13.961	2.759	1.00	0.00
ATOM 1809	3HG2	THR A 117	1.203	-15.589	2.627	1.00	0.00

ATOM 1810	N	LEU A 118	0.697	-11.462	-0.525	1.00	0.00
ATOM 1811	CA	LEU A 118	0.582	-11.053	-1.920	1.00	0.00
ATOM 1812	C	LEU A 118	1.896	-11.267	-2.662	1.00	0.00
ATOM 1813	O	LEU A 118	2.959	-11.365	-2.048	1.00	0.00
ATOM 1814	CB	LEU A 118	0.155	-9.586	-2.013	1.00	0.00
ATOM 1815	CG	LEU A 118	1.069	-8.593	-1.295	1.00	0.00
ATOM 1816	CD1	LEU A 118	2.157	-8.095	-2.231	1.00	0.00
ATOM 1817	CD2	LEU A 118	0.257	-7.428	-0.752	1.00	0.00
ATOM 1818	H	LEU A 118	1.486	-11.194	-0.011	1.00	0.00
ATOM 1819	HA	LEU A 118	-0.178	-11.666	-2.381	1.00	0.00
ATOM 1820	1HB	LEU A 118	0.114	-9.312	-3.057	1.00	0.00
ATOM 1821	2HB	LEU A 118	-0.835	-9.495	-1.596	1.00	0.00
ATOM 1822	HG	LEU A 118	1.545	-9.087	-0.461	1.00	0.00
ATOM 1823	1HD1	LEU A 118	1.708	-7.738	-3.146	1.00	0.00
ATOM 1824	2HD1	LEU A 118	2.837	-8.904	-2.455	1.00	0.00
ATOM 1825	3HD1	LEU A 118	2.698	-7.290	-1.757	1.00	0.00
ATOM 1826	1HD2	LEU A 118	-0.632	-7.301	-1.351	1.00	0.00
ATOM 1827	2HD2	LEU A 118	0.851	-6.526	-0.791	1.00	0.00
ATOM 1828	3HD2	LEU A 118	-0.023	-7.631	0.271	1.00	0.00
ATOM 1829	N	ASP A 119	1.813	-11.346	-3.985	1.00	0.00
ATOM 1830	CA	ASP A 119	2.993	-11.557	-4.816	1.00	0.00
ATOM 1831	C	ASP A 119	3.821	-10.281	-4.929	1.00	0.00
ATOM 1832	O	ASP A 119	3.342	-9.188	-4.630	1.00	0.00
ATOM 1833	CB	ASP A 119	2.580	-12.036	-6.209	1.00	0.00
ATOM 1834	CG	ASP A 119	3.513	-13.099	-6.755	1.00	0.00
ATOM 1835	OD1	ASP A 119	4.367	-12.761	-7.602	1.00	0.00
ATOM 1836	OD2	ASP A 119	3.391	-14.269	-6.336	1.00	0.00

ATOM 1837	H	ASP A 119	0.935	-11.264	-4.414	1.00	0.00
ATOM 1838	HA	ASP A 119	3.595	-12.322	-4.347	1.00	0.00
ATOM 1839	1HB	ASP A 119	1.584	-12.449	-6.160	1.00	0.00
ATOM 1840	2HB	ASP A 119	2.583	-11.195	-6.887	1.00	0.00
ATOM 1841	N	ARG A 120	5.067	-10.432	-5.366	1.00	0.00
ATOM 1842	CA	ARG A 120	5.967	-9.295	-5.524	1.00	0.00
ATOM 1843	C	ARG A 120	5.979	-8.812	-6.970	1.00	0.00
ATOM 1844	O	ARG A 120	5.900	-7.612	-7.235	1.00	0.00
ATOM 1845	CB	ARG A 120	7.383	-9.675	-5.088	1.00	0.00
ATOM 1846	CG	ARG A 120	8.383	-8.536	-5.206	1.00	0.00
ATOM 1847	CD	ARG A 120	9.794	-9.052	-5.447	1.00	0.00
ATOM 1848	NE	ARG A 120	10.294	-8.677	-6.767	1.00	0.00
ATOM 1849	CZ	ARG A 120	11.578	-8.732	-7.116	1.00	0.00
ATOM 1850	NH1	ARG A 120	12.492	-9.146	-6.247	1.00	0.00
ATOM 1851	NH2	ARG A 120	11.949	-8.370	-8.337	1.00	0.00
ATOM 1852	H	ARG A 120	5.390	-11.330	-5.590	1.00	0.00
ATOM 1853	HA	ARG A 120	5.606	-8.497	-4.892	1.00	0.00
ATOM 1854	1HB	ARG A 120	7.356	-9.996	-4.058	1.00	0.00
ATOM 1855	2HB	ARG A 120	7.729	-10.493	-5.703	1.00	0.00
ATOM 1856	1HG	ARG A 120	8.097	-7.902	-6.032	1.00	0.00
ATOM 1857	2HG	ARG A 120	8.371	-7.963	-4.290	1.00	0.00
ATOM 1858	1HD	ARG A 120	10.448	-8.638	-4.694	1.00	0.00
ATOM 1859	2HD	ARG A 120	9.789	-10.129	-5.367	1.00	0.00
ATOM 1860	HE	ARG A 120	9.641	-8.368	-7.429	1.00	0.00
ATOM 1861	1HH1	ARG A 120	12.220	-9.420	-5.325	1.00	0.00
ATOM 1862	2HH1	ARG A 120	13.455	-9.185	-6.515	1.00	0.00
ATOM 1863	1HH2	ARG A 120	11.264	-8.058	-8.996	1.00	0.00

ATOM	1864	2HH2	ARG	A	120	12.913	-8.411	-8.599	1.00	0.00
ATOM	1865	N	LYS	A	121	6.075	-9.754	-7.902	1.00	0.00
ATOM	1866	CA	LYS	A	121	6.095	-9.425	-9.323	1.00	0.00
ATOM	1867	C	LYS	A	121	4.822	-8.687	-9.725	1.00	0.00
ATOM	1868	O	LYS	A	121	4.852	-7.792	-10.569	1.00	0.00
ATOM	1869	CB	LYS	A	121	6.248	-10.695	-10.161	1.00	0.00
ATOM	1870	CG	LYS	A	121	7.509	-11.484	-9.843	1.00	0.00
ATOM	1871	CD	LYS	A	121	7.892	-12.407	-10.989	1.00	0.00
ATOM	1872	CE	LYS	A	121	9.388	-12.673	-11.015	1.00	0.00
ATOM	1873	NZ	LYS	A	121	9.695	-14.085	-11.374	1.00	0.00
ATOM	1874	H	LYS	A	121	6.132	-10.693	-7.629	1.00	0.00
ATOM	1875	HA	LYS	A	121	6.943	-8.780	-9.502	1.00	0.00
ATOM	1876	1HB	LYS	A	121	5.396	-11.334	-9.984	1.00	0.00
ATOM	1877	2HB	LYS	A	121	6.274	-10.423	-11.206	1.00	0.00
ATOM	1878	1HG	LYS	A	121	8.320	-10.793	-9.666	1.00	0.00
ATOM	1879	2HG	LYS	A	121	7.338	-12.076	-8.957	1.00	0.00
ATOM	1880	1HD	LYS	A	121	7.372	-13.346	-10.870	1.00	0.00
ATOM	1881	2HD	LYS	A	121	7.599	-11.948	-11.922	1.00	0.00
ATOM	1882	1HE	LYS	A	121	9.844	-12.018	-11.744	1.00	0.00
ATOM	1883	2HE	LYS	A	121	9.796	-12.460	-10.037	1.00	0.00
ATOM	1884	1HZ	LYS	A	121	9.643	-14.211	-12.405	1.00	0.00
ATOM	1885	2HZ	LYS	A	121	9.013	-14.725	-10.921	1.00	0.00
ATOM	1886	3HZ	LYS	A	121	10.653	-14.334	-11.052	1.00	0.00
ATOM	1887	N	SER	A	122	3.706	-9.070	-9.114	1.00	0.00
ATOM	1888	CA	SER	A	122	2.422	-8.444	-9.405	1.00	0.00
ATOM	1889	C	SER	A	122	2.434	-6.971	-9.007	1.00	0.00
ATOM	1890	O	SER	A	122	1.760	-6.146	-9.623	1.00	0.00

ATOM 1891	CB	SER A 122	1.296	-9.174	-8.670	1.00	0.00
ATOM 1892	OG	SER A 122	1.476	-9.106	-7.266	1.00	0.00
ATOM 1893	H	SER A 122	3.747	-9.788	-8.449	1.00	0.00
ATOM 1894	HA	SER A 122	2.252	-8.516	-10.468	1.00	0.00
ATOM 1895	1HB	SER A 122	0.350	-8.719	-8.922	1.00	0.00
ATOM 1896	2HB	SER A 122	1.287	-10.211	-8.970	1.00	0.00
ATOM 1897	HG	SER A 122	1.174	-8.253	-6.945	1.00	0.00
ATOM 1898	N	VAL A 123	3.206	-6.650	-7.974	1.00	0.00
ATOM 1899	CA	VAL A 123	3.309	-5.277	-7.495	1.00	0.00
ATOM 1900	C	VAL A 123	3.837	-4.356	-8.588	1.00	0.00
ATOM 1901	O	VAL A 123	4.681	-4.752	-9.394	1.00	0.00
ATOM 1902	CB	VAL A 123	4.229	-5.177	-6.263	1.00	0.00
ATOM 1903	CG1	VAL A 123	4.204	-3.769	-5.688	1.00	0.00
ATOM 1904	CG2	VAL A 123	3.825	-6.198	-5.209	1.00	0.00
ATOM 1905	H	VAL A 123	3.721	-7.353	-7.525	1.00	0.00
ATOM 1906	HA	VAL A 123	2.319	-4.949	-7.208	1.00	0.00
ATOM 1907	HB	VAL A 123	5.240	-5.395	-6.576	1.00	0.00
ATOM 1908	1HG1	VAL A 123	3.255	-3.594	-5.203	1.00	0.00
ATOM 1909	2HG1	VAL A 123	4.339	-3.052	-6.484	1.00	0.00
ATOM 1910	3HG1	VAL A 123	5.001	-3.660	-4.968	1.00	0.00
ATOM 1911	1HG2	VAL A 123	4.709	-6.680	-4.816	1.00	0.00
ATOM 1912	2HG2	VAL A 123	3.179	-6.940	-5.653	1.00	0.00
ATOM 1913	3HG2	VAL A 123	3.302	-5.701	-4.406	1.00	0.00
ATOM 1914	N	PHE A 124	3.337	-3.125	-8.613	1.00	0.00
ATOM 1915	CA	PHE A 124	3.760	-2.149	-9.609	1.00	0.00
ATOM 1916	C	PHE A 124	3.146	-0.783	-9.324	1.00	0.00
ATOM 1917	O	PHE A 124	1.996	-0.687	-8.898	1.00	0.00



ATOM 1918	CB	PHE A 124	3.367	-2.616	-11.011	1.00	0.00
ATOM 1919	CG	PHE A 124	3.938	-1.766	-12.110	1.00	0.00
ATOM 1920	CD1	PHE A 124	4.939	-2.256	-12.934	1.00	0.00
ATOM 1921	CD2	PHE A 124	3.473	-0.478	-12.320	1.00	0.00
ATOM 1922	CE1	PHE A 124	5.466	-1.476	-13.946	1.00	0.00
ATOM 1923	CE2	PHE A 124	3.996	0.306	-13.330	1.00	0.00
ATOM 1924	CZ	PHE A 124	4.994	-0.193	-14.144	1.00	0.00
ATOM 1925	H	PHE A 124	2.667	-2.867	-7.944	1.00	0.00
ATOM 1926	HA	PHE A 124	4.836	-2.065	-9.555	1.00	0.00
ATOM 1927	1HB	PHE A 124	3.718	-3.626	-11.158	1.00	0.00
ATOM 1928	2HB	PHE A 124	2.290	-2.598	-11.100	1.00	0.00
ATOM 1929	HD1	PHE A 124	5.308	-3.259	-12.780	1.00	0.00
ATOM 1930	HD2	PHE A 124	2.694	-0.086	-11.684	1.00	0.00
ATOM 1931	HE1	PHE A 124	6.246	-1.869	-14.581	1.00	0.00
ATOM 1932	HE2	PHE A 124	3.626	1.310	-13.483	1.00	0.00
ATOM 1933	HZ	PHE A 124	5.404	0.418	-14.935	1.00	0.00
ATOM 1934	N	VAL A 125	3.918	0.272	-9.561	1.00	0.00
ATOM 1935	CA	VAL A 125	3.444	1.628	-9.327	1.00	0.00
ATOM 1936	C	VAL A 125	3.945	2.583	-10.408	1.00	0.00
ATOM 1937	O	VAL A 125	5.118	2.559	-10.778	1.00	0.00
ATOM 1938	CB	VAL A 125	3.886	2.148	-7.945	1.00	0.00
ATOM 1939	CG1	VAL A 125	5.404	2.219	-7.854	1.00	0.00
ATOM 1940	CG2	VAL A 125	3.261	3.505	-7.656	1.00	0.00
ATOM 1941	H	VAL A 125	4.828	0.133	-9.900	1.00	0.00
ATOM 1942	HA	VAL A 125	2.365	1.610	-9.352	1.00	0.00
ATOM 1943	HB	VAL A 125	3.539	1.451	-7.195	1.00	0.00
ATOM 1944	1HG1	VAL A 125	5.840	1.670	-8.676	1.00	0.00

ATOM 1945	2HG1	VAL	A	125	5.730	1.788	-6.920	1.00	0.00
ATOM 1946	3HG1	VAL	A	125	5.720	3.251	-7.903	1.00	0.00
ATOM 1947	1HG2	VAL	A	125	2.407	3.377	-7.006	1.00	0.00
ATOM 1948	2HG2	VAL	A	125	2.942	3.959	-8.583	1.00	0.00
ATOM 1949	3HG2	VAL	A	125	3.987	4.142	-7.173	1.00	0.00
ATOM 1950	N	ASP	A	126	3.045	3.423	-10.908	1.00	0.00
ATOM 1951	CA	ASP	A	126	3.390	4.387	-11.946	1.00	0.00
ATOM 1952	C	ASP	A	126	2.955	5.795	-11.544	1.00	0.00
ATOM 1953	O	ASP	A	126	2.576	6.035	-10.399	1.00	0.00
ATOM 1954	CB	ASP	A	126	2.738	3.995	-13.273	1.00	0.00
ATOM 1955	CG	ASP	A	126	3.721	4.012	-14.427	1.00	0.00
ATOM 1956	OD1	ASP	A	126	4.917	3.738	-14.193	1.00	0.00
ATOM 1957	OD2	ASP	A	126	3.294	4.300	-15.565	1.00	0.00
ATOM 1958	H	ASP	A	126	2.125	3.394	-10.571	1.00	0.00
ATOM 1959	HA	ASP	A	126	4.463	4.376	-12.064	1.00	0.00
ATOM 1960	1HB	ASP	A	126	2.332	2.998	-13.186	1.00	0.00
ATOM 1961	2HB	ASP	A	126	1.938	4.686	-13.495	1.00	0.00
ATOM 1962	N	SER	A	127	3.014	6.721	-12.496	1.00	0.00
ATOM 1963	CA	SER	A	127	2.626	8.103	-12.241	1.00	0.00
ATOM 1964	C	SER	A	127	1.219	8.380	-12.759	1.00	0.00
ATOM 1965	O	SER	A	127	1.034	8.735	-13.924	1.00	0.00
ATOM 1966	CB	SER	A	127	3.622	9.063	-12.896	1.00	0.00
ATOM 1967	OG	SER	A	127	4.903	8.469	-13.010	1.00	0.00
ATOM 1968	H	SER	A	127	3.325	6.469	-13.390	1.00	0.00
ATOM 1969	HA	SER	A	127	2.640	8.259	-11.172	1.00	0.00
ATOM 1970	1HB	SER	A	127	3.270	9.325	-13.882	1.00	0.00
ATOM 1971	2HB	SER	A	127	3.705	9.957	-12.294	1.00	0.00

ATOM 1972	HG	SER A 127	5.578	9.148	-12.942	1.00	0.00
ATOM 1973	N	GLY A 128	0.230	8.218	-11.886	1.00	0.00
ATOM 1974	CA	GLY A 128	-1.149	8.456	-12.273	1.00	0.00
ATOM 1975	C	GLY A 128	-1.657	7.436	-13.277	1.00	0.00
ATOM 1976	O	GLY A 128	-1.671	6.239	-12.991	1.00	0.00
ATOM 1977	H	GLY A 128	0.437	7.935	-10.972	1.00	0.00
ATOM 1978	1HA	GLY A 128	-1.770	8.415	-11.390	1.00	0.00
ATOM 1979	2HA	GLY A 128	-1.223	9.442	-12.705	1.00	0.00
ATOM 1980	N	PRO A 129	-2.087	7.877	-14.475	1.00	0.00
ATOM 1981	CA	PRO A 129	-2.596	6.972	-15.510	1.00	0.00
ATOM 1982	C	PRO A 129	-1.504	6.078	-16.088	1.00	0.00
ATOM 1983	O	PRO A 129	-0.315	6.337	-15.905	1.00	0.00
ATOM 1984	CB	PRO A 129	-3.133	7.922	-16.584	1.00	0.00
ATOM 1985	CG	PRO A 129	-2.372	9.186	-16.388	1.00	0.00
ATOM 1986	CD	PRO A 129	-2.112	9.286	-14.911	1.00	0.00
ATOM 1987	HA	PRO A 129	-3.402	6.357	-15.136	1.00	0.00
ATOM 1988	1HB	PRO A 129	-2.953	7.499	-17.563	1.00	0.00
ATOM 1989	2HB	PRO A 129	-4.191	8.073	-16.439	1.00	0.00
ATOM 1990	1HG	PRO A 129	-1.439	9.142	-16.931	1.00	0.00
ATOM 1991	2HG	PRO A 129	-2.962	10.026	-16.722	1.00	0.00
ATOM 1992	1HD	PRO A 129	-1.161	9.763	-14.726	1.00	0.00
ATOM 1993	2HD	PRO A 129	-2.909	9.826	-14.423	1.00	0.00
ATOM 1994	N	SER A 130	-1.918	5.024	-16.785	1.00	0.00
ATOM 1995	CA	SER A 130	-0.975	4.091	-17.390	1.00	0.00
ATOM 1996	C	SER A 130	-1.398	3.738	-18.813	1.00	0.00
ATOM 1997	O	SER A 130	-2.587	3.597	-19.100	1.00	0.00
ATOM 1998	CB	SER A 130	-0.870	2.820	-16.543	1.00	0.00

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ATOM	1999	OG	SER A 130	0.384	2.746	-15.888	1.00	0.00
ATOM	2000	H	SER A 130	-2.879	4.872	-16.896	1.00	0.00
ATOM	2001	HA	SER A 130	-0.009	4.570	-17.424	1.00	0.00
ATOM	2002	1HB	SER A 130	-1.651	2.821	-15.797	1.00	0.00
ATOM	2003	2HB	SER A 130	-0.983	1.953	-17.179	1.00	0.00
ATOM	2004	HG	SER A 130	0.247	2.669	-14.941	1.00	0.00
ATOM	2005	N	SER A 131	-0.418	3.597	-19.698	1.00	0.00
ATOM	2006	CA	SER A 131	-0.689	3.261	-21.092	1.00	0.00
ATOM	2007	C	SER A 131	-0.251	1.834	-21.402	1.00	0.00
ATOM	2008	O	SER A 131	0.927	1.496	-21.283	1.00	0.00
ATOM	2009	CB	SER A 131	0.027	4.241	-22.023	1.00	0.00
ATOM	2010	OG	SER A 131	-0.767	4.540	-23.158	1.00	0.00
ATOM	2011	H	SER A 131	0.510	3.722	-19.408	1.00	0.00
ATOM	2012	HA	SER A 131	-1.754	3.341	-21.251	1.00	0.00
ATOM	2013	1HB	SER A 131	0.231	5.158	-21.490	1.00	0.00
ATOM	2014	2HB	SER A 131	0.958	3.803	-22.355	1.00	0.00
ATOM	2015	HG	SER A 131	-0.418	5.319	-23.597	1.00	0.00
ATOM	2016	N	GLY A 132	-1.206	1.000	-21.802	1.00	0.00
ATOM	2017	CA	GLY A 132	-0.899	-0.380	-22.124	1.00	0.00
ATOM	2018	C	GLY A 132	-1.488	-0.812	-23.452	1.00	0.00
ATOM	2019	H	GLY A 132	-2.127	1.326	-21.879	1.00	0.00
ATOM	2020	1HA	GLY A 132	0.173	-0.500	-22.163	1.00	0.00
ATOM	2021	2HA	GLY A 132	-1.294	-1.017	-21.344	1.00	0.00
TER	2022		GLY A 132					

ENDMDL

Three-Dimensional Structure Coordinate 6

ATOM 1	N	GLY A	1	-3.847	34.533	-12.567	1.00	0.00
ATOM 2	CA	GLY A	1	-3.321	33.226	-13.048	1.00	0.00
ATOM 3	C	GLY A	1	-3.817	32.060	-12.217	1.00	0.00
ATOM 4	O	GLY A	1	-4.897	31.524	-12.468	1.00	0.00
ATOM 5	1H	GLY A	1	-4.711	34.386	-12.007	1.00	0.00
ATOM 6	2H	GLY A	1	-4.073	35.146	-13.376	1.00	0.00
ATOM 7	3H	GLY A	1	-3.138	35.008	-11.973	1.00	0.00
ATOM 8	1HA	GLY A	1	-3.629	33.080	-14.073	1.00	0.00
ATOM 9	2HA	GLY A	1	-2.241	33.248	-13.007	1.00	0.00
ATOM 10	N	SER A	2	-3.028	31.664	-11.223	1.00	0.00
ATOM 11	CA	SER A	2	-3.393	30.553	-10.352	1.00	0.00
ATOM 12	C	SER A	2	-2.637	30.628	-9.029	1.00	0.00
ATOM 13	O	SER A	2	-1.651	29.920	-8.825	1.00	0.00
ATOM 14	CB	SER A	2	-3.105	29.219	-11.043	1.00	0.00
ATOM 15	OG	SER A	2	-1.711	29.015	-11.197	1.00	0.00
ATOM 16	H	SER A	2	-2.179	32.131	-11.073	1.00	0.00
ATOM 17	HA	SER A	2	-4.452	30.624	-10.151	1.00	0.00
ATOM 18	1HB	SER A	2	-3.510	28.413	-10.449	1.00	0.00
ATOM 19	2HB	SER A	2	-3.568	29.215	-12.019	1.00	0.00
ATOM 20	HG	SER A	2	-1.447	28.227	-10.715	1.00	0.00
ATOM 21	N	SER A	3	-3.106	31.491	-8.133	1.00	0.00
ATOM 22	CA	SER A	3	-2.475	31.658	-6.829	1.00	0.00
ATOM 23	C	SER A	3	-3.296	30.981	-5.737	1.00	0.00
ATOM 24	O	SER A	3	-2.773	30.187	-4.955	1.00	0.00
ATOM 25	CB	SER A	3	-2.302	33.144	-6.508	1.00	0.00
ATOM 26	OG	SER A	3	-1.120	33.371	-5.762	1.00	0.00
ATOM 27	H	SER A	3	-3.896	32.027	-8.354	1.00	0.00

ATOM 28	HA	SER A	3	-1.501	31.193	-6.871	1.00	0.00
ATOM 29	1HB	SER A	3	-2.244	33.705	-7.430	1.00	0.00
ATOM 30	2HB	SER A	3	-3.149	33.486	-5.932	1.00	0.00
ATOM 31	HG	SER A	3	-1.114	32.801	-4.989	1.00	0.00
ATOM 32	N	GLY A	4	-4.585	31.301	-5.690	1.00	0.00
ATOM 33	CA	GLY A	4	-5.457	30.715	-4.690	1.00	0.00
ATOM 34	C	GLY A	4	-6.873	30.520	-5.197	1.00	0.00
ATOM 35	O	GLY A	4	-7.146	30.717	-6.381	1.00	0.00
ATOM 36	H	GLY A	4	-4.947	31.939	-6.339	1.00	0.00
ATOM 37	1HA	GLY A	4	-5.058	29.755	-4.396	1.00	0.00
ATOM 38	2HA	GLY A	4	-5.482	31.362	-3.826	1.00	0.00
ATOM 39	N	SER A	5	-7.775	30.134	-4.299	1.00	0.00
ATOM 40	CA	SER A	5	-9.173	29.911	-4.657	1.00	0.00
ATOM 41	C	SER A	5	-9.320	28.679	-5.544	1.00	0.00
ATOM 42	O	SER A	5	-9.915	27.680	-5.142	1.00	0.00
ATOM 43	CB	SER A	5	-9.745	31.139	-5.370	1.00	0.00
ATOM 44	OG	SER A	5	-9.416	32.331	-4.679	1.00	0.00
ATOM 45	H	SER A	5	-7.493	29.995	-3.370	1.00	0.00
ATOM 46	HA	SER A	5	-9.725	29.748	-3.744	1.00	0.00
ATOM 47	1HB	SER A	5	-9.341	31.193	-6.369	1.00	0.00
ATOM 48	2HB	SER A	5	-10.822	31.053	-5.422	1.00	0.00
ATOM 49	HG	SER A	5	-9.933	32.387	-3.872	1.00	0.00
ATOM 50	N	SER A	6	-8.773	28.757	-6.753	1.00	0.00
ATOM 51	CA	SER A	6	-8.843	27.647	-7.697	1.00	0.00
ATOM 52	C	SER A	6	-8.209	26.391	-7.111	1.00	0.00
ATOM 53	O	SER A	6	-8.893	25.401	-6.850	1.00	0.00
ATOM 54	CB	SER A	6	-8.146	28.020	-9.007	1.00	0.00

ATOM 55	OG	SER A	6	-8.326	27.011	-9.986	1.00	0.00
ATOM 56	H	SER A	6	-8.311	29.580	-7.017	1.00	0.00
ATOM 57	HA	SER A	6	-9.886	27.449	-7.899	1.00	0.00
ATOM 58	1HB	SER A	6	-8.560	28.946	-9.382	1.00	0.00
ATOM 59	2HB	SER A	6	-7.089	28.146	-8.826	1.00	0.00
ATOM 60	HG	SER A	6	-7.586	27.024	-10.598	1.00	0.00
ATOM 61	N	GLY A	7	-6.896	26.437	-6.907	1.00	0.00
ATOM 62	CA	GLY A	7	-6.192	25.296	-6.352	1.00	0.00
ATOM 63	C	GLY A	7	-5.434	24.513	-7.407	1.00	0.00
ATOM 64	O	GLY A	7	-4.719	25.091	-8.225	1.00	0.00
ATOM 65	H	GLY A	7	-6.403	27.252	-7.134	1.00	0.00
ATOM 66	1HA	GLY A	7	-5.491	25.646	-5.609	1.00	0.00
ATOM 67	2HA	GLY A	7	-6.907	24.641	-5.877	1.00	0.00
ATOM 68	N	SER A	8	-5.593	23.194	-7.390	1.00	0.00
ATOM 69	CA	SER A	8	-4.919	22.330	-8.353	1.00	0.00
ATOM 70	C	SER A	8	-3.404	22.454	-8.227	1.00	0.00
ATOM 71	O	SER A	8	-2.899	23.165	-7.357	1.00	0.00
ATOM 72	CB	SER A	8	-5.359	22.678	-9.777	1.00	0.00
ATOM 73	OG	SER A	8	-5.878	21.541	-10.442	1.00	0.00
ATOM 74	H	SER A	8	-6.177	22.791	-6.713	1.00	0.00
ATOM 75	HA	SER A	8	-5.203	21.310	-8.137	1.00	0.00
ATOM 76	1HB	SER A	8	-6.125	23.438	-9.739	1.00	0.00
ATOM 77	2HB	SER A	8	-4.511	23.051	-10.334	1.00	0.00
ATOM 78	HG	SER A	8	-6.723	21.301	-10.055	1.00	0.00
ATOM 79	N	SER A	9	-2.683	21.758	-9.100	1.00	0.00
ATOM 80	CA	SER A	9	-1.225	21.791	-9.087	1.00	0.00
ATOM 81	C	SER A	9	-0.681	21.274	-7.759	1.00	0.00

ATOM 82	O	SER A	9	-1.443	20.918	-6.861	1.00	0.00
ATOM 83	CB	SER A	9	-0.724	23.214	-9.339	1.00	0.00
ATOM 84	OG	SER A	9	-1.623	23.934	-10.165	1.00	0.00
ATOM 85	H	SER A	9	-3.143	21.210	-9.770	1.00	0.00
ATOM 86	HA	SER A	9	-0.873	21.150	-9.881	1.00	0.00
ATOM 87	1HB	SER A	9	-0.630	23.732	-8.395	1.00	0.00
ATOM 88	2HB	SER A	9	0.239	23.174	-9.825	1.00	0.00
ATOM 89	HG	SER A	9	-1.670	23.515	-11.028	1.00	0.00
ATOM 90	N	SER A	10	0.643	21.239	-7.642	1.00	0.00
ATOM 91	CA	SER A	10	1.289	20.767	-6.423	1.00	0.00
ATOM 92	C	SER A	10	0.914	19.317	-6.135	1.00	0.00
ATOM 93	O	SER A	10	0.012	18.763	-6.761	1.00	0.00
ATOM 94	CB	SER A	10	0.899	21.651	-5.238	1.00	0.00
ATOM 95	OG	SER A	10	1.631	22.865	-5.243	1.00	0.00
ATOM 96	H	SER A	10	1.197	21.537	-8.392	1.00	0.00
ATOM 97	HA	SER A	10	2.357	20.828	-6.569	1.00	0.00
ATOM 98	1HB	SER A	10	-0.155	21.882	-5.295	1.00	0.00
ATOM 99	2HB	SER A	10	1.103	21.127	-4.316	1.00	0.00
ATOM 100	HG	SER A	10	2.172	22.916	-4.453	1.00	0.00
ATOM 101	N	SER A	11	1.616	18.707	-5.184	1.00	0.00
ATOM 102	CA	SER A	11	1.359	17.321	-4.812	1.00	0.00
ATOM 103	C	SER A	11	1.541	16.393	-6.009	1.00	0.00
ATOM 104	O	SER A	11	1.537	16.835	-7.157	1.00	0.00
ATOM 105	CB	SER A	11	-0.057	17.176	-4.247	1.00	0.00
ATOM 106	OG	SER A	11	-1.011	17.044	-5.287	1.00	0.00
ATOM 107	H	SER A	11	2.324	19.202	-4.721	1.00	0.00
ATOM 108	HA	SER A	11	2.070	17.046	-4.048	1.00	0.00



ATOM 109	1HB	SER A	11	-0.103	16.297	-3.621	1.00	0.00
ATOM 110	2HB	SER A	11	-0.299	18.049	-3.661	1.00	0.00
ATOM 111	N	GLN A	12	1.701	15.103	-5.731	1.00	0.00
ATOM 112	CA	GLN A	12	1.886	14.112	-6.785	1.00	0.00
ATOM 113	C	GLN A	12	1.037	12.872	-6.520	1.00	0.00
ATOM 114	O	GLN A	12	0.666	12.593	-5.378	1.00	0.00
ATOM 115	CB	GLN A	12	3.361	13.721	-6.894	1.00	0.00
ATOM 116	CG	GLN A	12	4.015	13.434	-5.553	1.00	0.00
ATOM 117	CD	GLN A	12	5.012	14.502	-5.148	1.00	0.00
ATOM 118	OE1	GLN A	12	4.782	15.257	-4.203	1.00	0.00
ATOM 119	NE2	GLN A	12	6.130	14.571	-5.864	1.00	0.00
ATOM 120	H	GLN A	12	1.696	14.811	-4.796	1.00	0.00
ATOM 121	HA	GLN A	12	1.570	14.556	-7.716	1.00	0.00
ATOM 122	1HB	GLN A	12	3.442	12.836	-7.508	1.00	0.00
ATOM 123	2HB	GLN A	12	3.900	14.528	-7.369	1.00	0.00
ATOM 124	1HG	GLN A	12	3.247	13.376	-4.797	1.00	0.00
ATOM 125	2HG	GLN A	12	4.530	12.486	-5.614	1.00	0.00
ATOM 126	1HE2	GLN A	12	6.245	13.937	-6.602	1.00	0.00
ATOM 127	2HE2	GLN A	12	6.791	15.252	-5.623	1.00	0.00
ATOM 128	N	HIS A	13	0.733	12.131	-7.580	1.00	0.00
ATOM 129	CA	HIS A	13	-0.072	10.920	-7.462	1.00	0.00
ATOM 130	C	HIS A	13	0.618	9.739	-8.138	1.00	0.00
ATOM 131	O	HIS A	13	1.056	9.836	-9.283	1.00	0.00
ATOM 132	CB	HIS A	13	-1.454	11.139	-8.080	1.00	0.00
ATOM 133	CG	HIS A	13	-2.256	12.201	-7.395	1.00	0.00
ATOM 134	ND1	HIS A	13	-3.520	11.981	-6.888	1.00	0.00
ATOM 135	CD2	HIS A	13	-1.969	13.499	-7.131	1.00	0.00

ATOM 136	CE1	HIS	A	13	-3.975	13.096	-6.344	1.00	0.00
ATOM 137	NE2	HIS	A	13	-3.052	14.031	-6.478	1.00	0.00
ATOM 138	H	HIS	A	13	1.057	12.404	-8.464	1.00	0.00
ATOM 139	HA	HIS	A	13	-0.189	10.700	-6.411	1.00	0.00
ATOM 140	1HB	HIS	A	13	-1.337	11.428	-9.114	1.00	0.00
ATOM 141	2HB	HIS	A	13	-2.012	10.216	-8.031	1.00	0.00
ATOM 142	HD1	HIS	A	13	-4.012	11.133	-6.923	1.00	0.00
ATOM 143	HD2	HIS	A	13	-1.055	14.017	-7.387	1.00	0.00
ATOM 144	HE1	HIS	A	13	-4.937	13.222	-5.870	1.00	0.00
ATOM 145	HE2	HIS	A	13	-3.168	14.976	-6.244	1.00	0.00
ATOM 146	N	PHE	A	14	0.708	8.624	-7.420	1.00	0.00
ATOM 147	CA	PHE	A	14	1.343	7.423	-7.950	1.00	0.00
ATOM 148	C	PHE	A	14	0.374	6.245	-7.935	1.00	0.00
ATOM 149	O	PHE	A	14	0.028	5.726	-6.874	1.00	0.00
ATOM 150	CB	PHE	A	14	2.593	7.082	-7.137	1.00	0.00
ATOM 151	CG	PHE	A	14	3.782	7.933	-7.480	1.00	0.00
ATOM 152	CD1	PHE	A	14	4.023	9.117	-6.801	1.00	0.00
ATOM 153	CD2	PHE	A	14	4.659	7.550	-8.483	1.00	0.00
ATOM 154	CE1	PHE	A	14	5.116	9.902	-7.114	1.00	0.00
ATOM 155	CE2	PHE	A	14	5.753	8.332	-8.801	1.00	0.00
ATOM 156	CZ	PHE	A	14	5.982	9.509	-8.116	1.00	0.00
ATOM 157	H	PHE	A	14	0.338	8.609	-6.513	1.00	0.00
ATOM 158	HA	PHE	A	14	1.632	7.623	-8.970	1.00	0.00
ATOM 159	1HB	PHE	A	14	2.380	7.218	-6.087	1.00	0.00
ATOM 160	2HB	PHE	A	14	2.859	6.050	-7.316	1.00	0.00
ATOM 161	HD1	PHE	A	14	3.346	9.424	-6.017	1.00	0.00
ATOM 162	HD2	PHE	A	14	4.480	6.630	-9.020	1.00	0.00

ATOM 163	HE1	PHE	A	14	5.292	10.822	-6.578	1.00	0.00
ATOM 164	HE2	PHE	A	14	6.429	8.022	-9.585	1.00	0.00
ATOM 165	HZ	PHE	A	14	6.837	10.122	-8.363	1.00	0.00
ATOM 166	N	ASN	A	15	-0.062	5.827	-9.120	1.00	0.00
ATOM 167	CA	ASN	A	15	-0.993	4.711	-9.247	1.00	0.00
ATOM 168	C	ASN	A	15	-0.457	3.467	-8.544	1.00	0.00
ATOM 169	O	ASN	A	15	0.509	2.855	-8.996	1.00	0.00
ATOM 170	CB	ASN	A	15	-1.256	4.403	-10.721	1.00	0.00
ATOM 171	CG	ASN	A	15	-2.681	3.952	-10.973	1.00	0.00
ATOM 172	OD1	ASN	A	15	-3.167	3.012	-10.346	1.00	0.00
ATOM 173	ND2	ASN	A	15	-3.360	4.624	-11.897	1.00	0.00
ATOM 174	H	ASN	A	15	0.250	6.282	-9.931	1.00	0.00
ATOM 175	HA	ASN	A	15	-1.921	5.001	-8.778	1.00	0.00
ATOM 176	1HB	ASN	A	15	-1.071	5.292	-11.307	1.00	0.00
ATOM 177	2HB	ASN	A	15	-0.587	3.619	-11.044	1.00	0.00
ATOM 178	1HD2	ASN	A	15	-2.909	5.362	-12.357	1.00	0.00
ATOM 179	2HD2	ASN	A	15	-4.284	4.354	-12.080	1.00	0.00
ATOM 180	N	LEU	A	16	-1.094	3.098	-7.437	1.00	0.00
ATOM 181	CA	LEU	A	16	-0.683	1.927	-6.673	1.00	0.00
ATOM 182	C	LEU	A	16	-1.500	0.705	-7.079	1.00	0.00
ATOM 183	O	LEU	A	16	-2.729	0.761	-7.139	1.00	0.00
ATOM 184	CB	LEU	A	16	-0.845	2.190	-5.175	1.00	0.00
ATOM 185	CG	LEU	A	16	-0.161	1.173	-4.259	1.00	0.00
ATOM 186	CD1	LEU	A	16	1.351	1.246	-4.416	1.00	0.00
ATOM 187	CD2	LEU	A	16	-0.563	1.410	-2.810	1.00	0.00
ATOM 188	H	LEU	A	16	-1.859	3.626	-7.128	1.00	0.00
ATOM 189	HA	LEU	A	16	0.358	1.738	-6.887	1.00	0.00

ATOM 190	1HB	LEU	A	16	-0.440	3.168	-4.957	1.00	0.00
ATOM 191	2HB	LEU	A	16	-1.899	2.197	-4.943	1.00	0.00
ATOM 192	HG	LEU	A	16	-0.477	0.179	-4.537	1.00	0.00
ATOM 193	1HD1	LEU	A	16	1.690	0.415	-5.015	1.00	0.00
ATOM 194	2HD1	LEU	A	16	1.817	1.202	-3.442	1.00	0.00
ATOM 195	3HD1	LEU	A	16	1.619	2.174	-4.901	1.00	0.00
ATOM 196	1HD2	LEU	A	16	-0.375	0.515	-2.235	1.00	0.00
ATOM 197	2HD2	LEU	A	16	-1.614	1.654	-2.763	1.00	0.00
ATOM 198	3HD2	LEU	A	16	0.016	2.227	-2.405	1.00	0.00
ATOM 199	N	ASN	A	17	-0.813	-0.398	-7.361	1.00	0.00
ATOM 200	CA	ASN	A	17	-1.485	-1.628	-7.765	1.00	0.00
ATOM 201	C	ASN	A	17	-0.679	-2.858	-7.361	1.00	0.00
ATOM 202	O	ASN	A	17	0.551	-2.846	-7.389	1.00	0.00
ATOM 203	CB	ASN	A	17	-1.717	-1.631	-9.277	1.00	0.00
ATOM 204	CG	ASN	A	17	-2.598	-0.484	-9.731	1.00	0.00
ATOM 205	OD1	ASN	A	17	-3.800	-0.652	-9.934	1.00	0.00
ATOM 206	ND2	ASN	A	17	-2.001	0.691	-9.892	1.00	0.00
ATOM 207	H	ASN	A	17	0.164	-0.384	-7.300	1.00	0.00
ATOM 208	HA	ASN	A	17	-2.442	-1.660	-7.266	1.00	0.00
ATOM 209	1HB	ASN	A	17	-0.765	-1.552	-9.781	1.00	0.00
ATOM 210	2HB	ASN	A	17	-2.192	-2.560	-9.560	1.00	0.00
ATOM 211	1HD2	ASN	A	17	-1.040	0.751	-9.712	1.00	0.00
ATOM 212	2HD2	ASN	A	17	-2.546	1.450	-10.185	1.00	0.00
ATOM 213	N	PHE	A	18	-1.387	-3.921	-6.992	1.00	0.00
ATOM 214	CA	PHE	A	18	-0.750	-5.169	-6.587	1.00	0.00
ATOM 215	C	PHE	A	18	-1.801	-6.224	-6.257	1.00	0.00
ATOM 216	O	PHE	A	18	-2.641	-6.026	-5.378	1.00	0.00

ATOM 217	CB	PHE A	18	0.166	-4.942	-5.383	1.00	0.00
ATOM 218	CG	PHE A	18	-0.551	-4.434	-4.164	1.00	0.00
ATOM 219	CD1	PHE A	18	-0.827	-5.282	-3.104	1.00	0.00
ATOM 220	CD2	PHE A	18	-0.944	-3.109	-4.079	1.00	0.00
ATOM 221	CE1	PHE A	18	-1.483	-4.817	-1.980	1.00	0.00
ATOM 222	CE2	PHE A	18	-1.600	-2.637	-2.958	1.00	0.00
ATOM 223	CZ	PHE A	18	-1.870	-3.493	-1.907	1.00	0.00
ATOM 224	H	PHE A	18	-2.365	-3.866	-6.997	1.00	0.00
ATOM 225	HA	PHE A	18	-0.156	-5.521	-7.418	1.00	0.00
ATOM 226	1HB	PHE A	18	0.643	-5.873	-5.121	1.00	0.00
ATOM 227	2HB	PHE A	18	0.924	-4.218	-5.649	1.00	0.00
ATOM 228	HD1	PHE A	18	-0.523	-6.318	-3.159	1.00	0.00
ATOM 229	HD2	PHE A	18	-0.733	-2.439	-4.900	1.00	0.00
ATOM 230	HE1	PHE A	18	-1.693	-5.487	-1.160	1.00	0.00
ATOM 231	HE2	PHE A	18	-1.902	-1.601	-2.904	1.00	0.00
ATOM 232	HZ	PHE A	18	-2.383	-3.126	-1.030	1.00	0.00
ATOM 233	N	THR A	19	-1.753	-7.343	-6.972	1.00	0.00
ATOM 234	CA	THR A	19	-2.705	-8.428	-6.762	1.00	0.00
ATOM 235	C	THR A	19	-2.467	-9.120	-5.423	1.00	0.00
ATOM 236	O	THR A	19	-1.338	-9.484	-5.092	1.00	0.00
ATOM 237	CB	THR A	19	-2.605	-9.445	-7.899	1.00	0.00
ATOM 238	OG1	THR A	19	-2.799	-8.817	-9.153	1.00	0.00
ATOM 239	CG2	THR A	19	-3.614	-10.568	-7.787	1.00	0.00
ATOM 240	H	THR A	19	-1.064	-7.438	-7.662	1.00	0.00
ATOM 241	HA	THR A	19	-3.696	-8.002	-6.761	1.00	0.00
ATOM 242	HB	THR A	19	-1.618	-9.886	-7.888	1.00	0.00
ATOM 243	HG1	THR A	19	-2.728	-9.470	-9.853	1.00	0.00

ATOM 244	1HG2	THR	A	19	-4.028	-10.778	-8.763	1.00	0.00
ATOM 245	2HG2	THR	A	19	-4.406	-10.274	-7.116	1.00	0.00
ATOM 246	3HG2	THR	A	19	-3.127	-11.452	-7.405	1.00	0.00
ATOM 247	N	ILE	A	20	-3.540	-9.301	-4.661	1.00	0.00
ATOM 248	CA	ILE	A	20	-3.453	-9.955	-3.360	1.00	0.00
ATOM 249	C	ILE	A	20	-3.930	-11.401	-3.441	1.00	0.00
ATOM 250	O	ILE	A	20	-5.130	-11.666	-3.504	1.00	0.00
ATOM 251	CB	ILE	A	20	-4.286	-9.210	-2.299	1.00	0.00
ATOM 252	CG1	ILE	A	20	-3.950	-7.717	-2.308	1.00	0.00
ATOM 253	CG2	ILE	A	20	-4.042	-9.803	-0.920	1.00	0.00
ATOM 254	CD1	ILE	A	20	-4.963	-6.866	-1.575	1.00	0.00
ATOM 255	H	ILE	A	20	-4.412	-8.991	-4.982	1.00	0.00
ATOM 256	HA	ILE	A	20	-2.418	-9.943	-3.049	1.00	0.00
ATOM 257	HB	ILE	A	20	-5.331	-9.337	-2.539	1.00	0.00
ATOM 258	1HG1	ILE	A	20	-2.990	-7.568	-1.837	1.00	0.00
ATOM 259	2HG1	ILE	A	20	-3.902	-7.372	-3.331	1.00	0.00
ATOM 260	1HG2	ILE	A	20	-3.953	-10.877	-1.001	1.00	0.00
ATOM 261	2HG2	ILE	A	20	-4.870	-9.559	-0.271	1.00	0.00
ATOM 262	3HG2	ILE	A	20	-3.131	-9.396	-0.508	1.00	0.00
ATOM 263	1HD1	ILE	A	20	-5.821	-6.700	-2.210	1.00	0.00
ATOM 264	2HD1	ILE	A	20	-4.516	-5.917	-1.318	1.00	0.00
ATOM 265	3HD1	ILE	A	20	-5.275	-7.373	-0.674	1.00	0.00
ATOM 266	N	THR	A	21	-2.982	-12.332	-3.441	1.00	0.00
ATOM 267	CA	THR	A	21	-3.303	-13.753	-3.518	1.00	0.00
ATOM 268	C	THR	A	21	-4.160	-14.186	-2.332	1.00	0.00
ATOM 269	O	THR	A	21	-4.967	-15.108	-2.442	1.00	0.00
ATOM 270	CB	THR	A	21	-2.020	-14.584	-3.564	1.00	0.00

ATOM 271	OG1	THR A	21	-1.373	-14.576	-2.304	1.00	0.00
ATOM 272	CG2	THR A	21	-1.026	-14.093	-4.594	1.00	0.00
ATOM 273	H	THR A	21	-2.043	-12.057	-3.392	1.00	0.00
ATOM 274	HA	THR A	21	-3.860	-13.918	-4.428	1.00	0.00
ATOM 275	HB	THR A	21	-2.273	-15.605	-3.809	1.00	0.00
ATOM 276	HG1	THR A	21	-1.041	-13.694	-2.119	1.00	0.00
ATOM 277	1HG2	THR A	21	-0.614	-13.147	-4.275	1.00	0.00
ATOM 278	2HG2	THR A	21	-1.525	-13.967	-5.544	1.00	0.00
ATOM 279	3HG2	THR A	21	-0.230	-14.815	-4.698	1.00	0.00
ATOM 280	N	ASN A	22	-3.978	-13.517	-1.198	1.00	0.00
ATOM 281	CA	ASN A	22	-4.734	-13.837	0.008	1.00	0.00
ATOM 282	C	ASN A	22	-6.040	-13.049	0.057	1.00	0.00
ATOM 283	O	ASN A	22	-6.332	-12.367	1.040	1.00	0.00
ATOM 284	CB	ASN A	22	-3.895	-13.543	1.254	1.00	0.00
ATOM 285	CG	ASN A	22	-4.036	-14.620	2.311	1.00	0.00
ATOM 286	OD1	ASN A	22	-4.518	-15.720	2.035	1.00	0.00
ATOM 287	ND2	ASN A	22	-3.616	-14.309	3.532	1.00	0.00
ATOM 288	H	ASN A	22	-3.319	-12.793	-1.170	1.00	0.00
ATOM 289	HA	ASN A	22	-4.966	-14.891	-0.019	1.00	0.00
ATOM 290	1HB	ASN A	22	-2.855	-13.477	0.972	1.00	0.00
ATOM 291	2HB	ASN A	22	-4.209	-12.602	1.679	1.00	0.00
ATOM 292	1HD2	ASN A	22	-3.244	-13.414	3.679	1.00	0.00
ATOM 293	2HD2	ASN A	22	-3.695	-14.987	4.235	1.00	0.00
ATOM 294	N	LEU A	23	-6.827	-13.149	-1.009	1.00	0.00
ATOM 295	CA	LEU A	23	-8.102	-12.447	-1.087	1.00	0.00
ATOM 296	C	LEU A	23	-8.938	-12.962	-2.258	1.00	0.00
ATOM 297	O	LEU A	23	-8.714	-12.575	-3.405	1.00	0.00

ATOM 298	CB	LEU A	23	-7.872	-10.942	-1.232	1.00	0.00
ATOM 299	CG	LEU A	23	-8.995	-10.059	-0.683	1.00	0.00
ATOM 300	CD1	LEU A	23	-10.321	-10.416	-1.336	1.00	0.00
ATOM 301	CD2	LEU A	23	-9.091	-10.198	0.829	1.00	0.00
ATOM 302	H	LEU A	23	-6.542	-13.709	-1.762	1.00	0.00
ATOM 303	HA	LEU A	23	-8.638	-12.632	-0.168	1.00	0.00
ATOM 304	1HB	LEU A	23	-6.957	-10.688	-0.716	1.00	0.00
ATOM 305	2HB	LEU A	23	-7.748	-10.717	-2.281	1.00	0.00
ATOM 306	HG	LEU A	23	-8.777	-9.027	-0.913	1.00	0.00
ATOM 307	1HD1	LEU A	23	-11.097	-9.771	-0.952	1.00	0.00
ATOM 308	2HD1	LEU A	23	-10.566	-11.444	-1.118	1.00	0.00
ATOM 309	3HD1	LEU A	23	-10.242	-10.284	-2.406	1.00	0.00
ATOM 310	1HD2	LEU A	23	-10.122	-10.104	1.135	1.00	0.00
ATOM 311	2HD2	LEU A	23	-8.504	-9.422	1.299	1.00	0.00
ATOM 312	3HD2	LEU A	23	-8.713	-11.165	1.128	1.00	0.00
ATOM 313	N	PRO A	24	-9.917	-13.843	-1.986	1.00	0.00
ATOM 314	CA	PRO A	24	-10.783	-14.405	-3.028	1.00	0.00
ATOM 315	C	PRO A	24	-11.747	-13.371	-3.599	1.00	0.00
ATOM 316	O	PRO A	24	-12.256	-12.515	-2.876	1.00	0.00
ATOM 317	CB	PRO A	24	-11.553	-15.506	-2.295	1.00	0.00
ATOM 318	CG	PRO A	24	-11.561	-15.077	-0.870	1.00	0.00
ATOM 319	CD	PRO A	24	-10.257	-14.361	-0.647	1.00	0.00
ATOM 320	HA	PRO A	24	-10.205	-14.839	-3.830	1.00	0.00
ATOM 321	1HB	PRO A	24	-12.555	-15.574	-2.694	1.00	0.00
ATOM 322	2HB	PRO A	24	-11.044	-16.450	-2.421	1.00	0.00
ATOM 323	1HG	PRO A	24	-12.391	-14.409	-0.691	1.00	0.00
ATOM 324	2HG	PRO A	24	-11.628	-15.942	-0.227	1.00	0.00



ATOM 325	1HD	PRO	A	24	-10.387	-13.551	0.058	1.00	0.00
ATOM 326	2HD	PRO	A	24	-9.503	-15.049	-0.297	1.00	0.00
ATOM 327	N	TYR	A	25	-11.992	-13.455	-4.903	1.00	0.00
ATOM 328	CA	TYR	A	25	-12.895	-12.527	-5.573	1.00	0.00
ATOM 329	C	TYR	A	25	-14.294	-13.121	-5.696	1.00	0.00
ATOM 330	O	TYR	A	25	-14.594	-13.837	-6.653	1.00	0.00
ATOM 331	CB	TYR	A	25	-12.356	-12.169	-6.960	1.00	0.00
ATOM 332	CG	TYR	A	25	-12.926	-10.884	-7.519	1.00	0.00
ATOM 333	CD1	TYR	A	25	-12.433	-9.650	-7.115	1.00	0.00
ATOM 334	CD2	TYR	A	25	-13.956	-10.907	-8.450	1.00	0.00
ATOM 335	CE1	TYR	A	25	-12.952	-8.474	-7.624	1.00	0.00
ATOM 336	CE2	TYR	A	25	-14.479	-9.736	-8.964	1.00	0.00
ATOM 337	CZ	TYR	A	25	-13.973	-8.522	-8.548	1.00	0.00
ATOM 338	OH	TYR	A	25	-14.492	-7.353	-9.057	1.00	0.00
ATOM 339	H	TYR	A	25	-11.556	-14.160	-5.427	1.00	0.00
ATOM 340	HA	TYR	A	25	-12.950	-11.629	-4.976	1.00	0.00
ATOM 341	1HB	TYR	A	25	-11.283	-12.058	-6.904	1.00	0.00
ATOM 342	2HB	TYR	A	25	-12.595	-12.966	-7.648	1.00	0.00
ATOM 343	HD1	TYR	A	25	-11.632	-9.615	-6.391	1.00	0.00
ATOM 344	HD2	TYR	A	25	-14.350	-11.859	-8.775	1.00	0.00
ATOM 345	HE1	TYR	A	25	-12.555	-7.524	-7.298	1.00	0.00
ATOM 346	HE2	TYR	A	25	-15.280	-9.774	-9.688	1.00	0.00
ATOM 347	HH	TYR	A	25	-14.063	-7.150	-9.892	1.00	0.00
ATOM 348	N	SER	A	26	-15.149	-12.819	-4.724	1.00	0.00
ATOM 349	CA	SER	A	26	-16.517	-13.322	-4.725	1.00	0.00
ATOM 350	C	SER	A	26	-17.479	-12.284	-5.296	1.00	0.00
ATOM 351	O	SER	A	26	-17.058	-11.225	-5.761	1.00	0.00

ATOM 352	CB	SER A	26	-16.944	-13.703	-3.306	1.00	0.00
ATOM 353	OG	SER A	26	-18.002	-14.645	-3.326	1.00	0.00
ATOM 354	H	SER A	26	-14.852	-12.242	-3.989	1.00	0.00
ATOM 355	HA	SER A	26	-16.545	-14.203	-5.349	1.00	0.00
ATOM 356	1HB	SER A	26	-16.103	-14.136	-2.784	1.00	0.00
ATOM 357	2HB	SER A	26	-17.275	-12.818	-2.782	1.00	0.00
ATOM 358	HG	SER A	26	-17.769	-15.377	-3.902	1.00	0.00
ATOM 359	N	GLN A	27	-18.769	-12.597	-5.258	1.00	0.00
ATOM 360	CA	GLN A	27	-19.790	-11.692	-5.772	1.00	0.00
ATOM 361	C	GLN A	27	-19.936	-10.468	-4.873	1.00	0.00
ATOM 362	O	GLN A	27	-20.261	-9.377	-5.341	1.00	0.00
ATOM 363	CB	GLN A	27	-21.132	-12.417	-5.889	1.00	0.00
ATOM 364	CG	GLN A	27	-22.095	-11.759	-6.864	1.00	0.00
ATOM 365	CD	GLN A	27	-23.525	-11.755	-6.358	1.00	0.00
ATOM 366	OE1	GLN A	27	-23.841	-11.102	-5.364	1.00	0.00
ATOM 367	NE2	GLN A	27	-24.397	-12.486	-7.041	1.00	0.00
ATOM 368	H	GLN A	27	-19.042	-13.457	-4.876	1.00	0.00
ATOM 369	HA	GLN A	27	-19.480	-11.367	-6.755	1.00	0.00
ATOM 370	1HB	GLN A	27	-20.954	-13.429	-6.221	1.00	0.00
ATOM 371	2HB	GLN A	27	-21.601	-12.442	-4.916	1.00	0.00
ATOM 372	1HG	GLN A	27	-21.785	-10.737	-7.025	1.00	0.00
ATOM 373	2HG	GLN A	27	-22.063	-12.296	-7.801	1.00	0.00
ATOM 374	1HE2	GLN A	27	-24.074	-12.981	-7.824	1.00	0.00
ATOM 375	2HE2	GLN A	27	-25.328	-12.502	-6.736	1.00	0.00
ATOM 376	N	ASP A	28	-19.694	-10.658	-3.580	1.00	0.00
ATOM 377	CA	ASP A	28	-19.799	-9.570	-2.615	1.00	0.00
ATOM 378	C	ASP A	28	-18.805	-8.459	-2.937	1.00	0.00

ATOM 379	O	ASP	A	28	-19.153	-7.279	-2.926	1.00	0.00
ATOM 380	CB	ASP	A	28	-19.557	-10.093	-1.198	1.00	0.00
ATOM 381	CG	ASP	A	28	-20.617	-11.084	-0.759	1.00	0.00
ATOM 382	OD1	ASP	A	28	-21.800	-10.692	-0.678	1.00	0.00
ATOM 383	OD2	ASP	A	28	-20.264	-12.253	-0.497	1.00	0.00
ATOM 384	H	ASP	A	28	-19.439	-11.552	-3.268	1.00	0.00
ATOM 385	HA	ASP	A	28	-20.800	-9.169	-2.675	1.00	0.00
ATOM 386	1HB	ASP	A	28	-18.596	-10.582	-1.161	1.00	0.00
ATOM 387	2HB	ASP	A	28	-19.561	-9.261	-0.508	1.00	0.00
ATOM 388	N	ILE	A	29	-17.565	-8.844	-3.223	1.00	0.00
ATOM 389	CA	ILE	A	29	-16.520	-7.880	-3.548	1.00	0.00
ATOM 390	C	ILE	A	29	-16.909	-7.033	-4.757	1.00	0.00
ATOM 391	O	ILE	A	29	-16.408	-5.923	-4.934	1.00	0.00
ATOM 392	CB	ILE	A	29	-15.177	-8.582	-3.834	1.00	0.00
ATOM 393	CG1	ILE	A	29	-14.797	-9.500	-2.671	1.00	0.00
ATOM 394	CG2	ILE	A	29	-14.082	-7.554	-4.082	1.00	0.00
ATOM 395	CD1	ILE	A	29	-14.658	-8.775	-1.350	1.00	0.00
ATOM 396	H	ILE	A	29	-17.349	-9.801	-3.215	1.00	0.00
ATOM 397	HA	ILE	A	29	-16.389	-7.232	-2.694	1.00	0.00
ATOM 398	HB	ILE	A	29	-15.288	-9.174	-4.729	1.00	0.00
ATOM 399	1HG1	ILE	A	29	-15.555	-10.258	-2.555	1.00	0.00
ATOM 400	2HG1	ILE	A	29	-13.851	-9.975	-2.891	1.00	0.00
ATOM 401	1HG2	ILE	A	29	-14.223	-7.103	-5.053	1.00	0.00
ATOM 402	2HG2	ILE	A	29	-13.118	-8.040	-4.048	1.00	0.00
ATOM 403	3HG2	ILE	A	29	-14.126	-6.789	-3.320	1.00	0.00
ATOM 404	1HD1	ILE	A	29	-13.980	-7.943	-1.465	1.00	0.00
ATOM 405	2HD1	ILE	A	29	-14.269	-9.455	-0.606	1.00	0.00

ATOM 406	3HD1	ILE	A	29	-15.624	-8.412	-1.036	1.00	0.00
ATOM 407	N	ALA	A	30	-17.804	-7.561	-5.587	1.00	0.00
ATOM 408	CA	ALA	A	30	-18.256	-6.850	-6.776	1.00	0.00
ATOM 409	C	ALA	A	30	-19.111	-5.642	-6.405	1.00	0.00
ATOM 410	O	ALA	A	30	-19.204	-4.678	-7.166	1.00	0.00
ATOM 411	CB	ALA	A	30	-19.031	-7.788	-7.688	1.00	0.00
ATOM 412	H	ALA	A	30	-18.169	-8.450	-5.395	1.00	0.00
ATOM 413	HA	ALA	A	30	-17.382	-6.507	-7.311	1.00	0.00
ATOM 414	1HB	ALA	A	30	-20.080	-7.751	-7.433	1.00	0.00
ATOM 415	2HB	ALA	A	30	-18.666	-8.797	-7.561	1.00	0.00
ATOM 416	3HB	ALA	A	30	-18.898	-7.484	-8.715	1.00	0.00
ATOM 417	N	GLN	A	31	-19.738	-5.700	-5.234	1.00	0.00
ATOM 418	CA	GLN	A	31	-20.587	-4.609	-4.767	1.00	0.00
ATOM 419	C	GLN	A	31	-19.930	-3.866	-3.604	1.00	0.00
ATOM 420	O	GLN	A	31	-19.720	-4.438	-2.534	1.00	0.00
ATOM 421	CB	GLN	A	31	-21.951	-5.149	-4.335	1.00	0.00
ATOM 422	CG	GLN	A	31	-22.941	-5.286	-5.480	1.00	0.00
ATOM 423	CD	GLN	A	31	-23.676	-3.993	-5.773	1.00	0.00
ATOM 424	OE1	GLN	A	31	-23.087	-3.028	-6.260	1.00	0.00
ATOM 425	NE2	GLN	A	31	-24.970	-3.967	-5.474	1.00	0.00
ATOM 426	H	GLN	A	31	-19.628	-6.494	-4.671	1.00	0.00
ATOM 427	HA	GLN	A	31	-20.727	-3.925	-5.589	1.00	0.00
ATOM 428	1HB	GLN	A	31	-21.815	-6.122	-3.887	1.00	0.00
ATOM 429	2HB	GLN	A	31	-22.374	-4.481	-3.599	1.00	0.00
ATOM 430	1HG	GLN	A	31	-22.406	-5.587	-6.368	1.00	0.00
ATOM 431	2HG	GLN	A	31	-23.666	-6.045	-5.223	1.00	0.00
ATOM 432	1HE2	GLN	A	31	-25.372	-4.772	-5.087	1.00	0.00

ATOM 433	2HE2	GLN	A	31	-25.469	-3.143	-5.653	1.00	0.00
ATOM 434	N	PRO	A	32	-19.595	-2.576	-3.794	1.00	0.00
ATOM 435	CA	PRO	A	32	-18.958	-1.763	-2.751	1.00	0.00
ATOM 436	C	PRO	A	32	-19.797	-1.679	-1.477	1.00	0.00
ATOM 437	O	PRO	A	32	-19.288	-1.333	-0.412	1.00	0.00
ATOM 438	CB	PRO	A	32	-18.831	-0.377	-3.394	1.00	0.00
ATOM 439	CG	PRO	A	32	-18.899	-0.625	-4.861	1.00	0.00
ATOM 440	CD	PRO	A	32	-19.804	-1.809	-5.036	1.00	0.00
ATOM 441	HA	PRO	A	32	-17.975	-2.138	-2.505	1.00	0.00
ATOM 442	1HB	PRO	A	32	-19.644	0.252	-3.062	1.00	0.00
ATOM 443	2HB	PRO	A	32	-17.888	0.068	-3.113	1.00	0.00
ATOM 444	1HG	PRO	A	32	-19.310	0.239	-5.362	1.00	0.00
ATOM 445	2HG	PRO	A	32	-17.913	-0.847	-5.242	1.00	0.00
ATOM 446	1HD	PRO	A	32	-20.832	-1.490	-5.125	1.00	0.00
ATOM 447	2HD	PRO	A	32	-19.509	-2.387	-5.899	1.00	0.00
ATOM 448	N	SER	A	33	-21.085	-1.992	-1.594	1.00	0.00
ATOM 449	CA	SER	A	33	-21.989	-1.946	-0.449	1.00	0.00
ATOM 450	C	SER	A	33	-22.127	-3.321	0.197	1.00	0.00
ATOM 451	O	SER	A	33	-23.208	-3.696	0.654	1.00	0.00
ATOM 452	CB	SER	A	33	-23.363	-1.431	-0.880	1.00	0.00
ATOM 453	OG	SER	A	33	-24.159	-1.099	0.245	1.00	0.00
ATOM 454	H	SER	A	33	-21.437	-2.258	-2.469	1.00	0.00
ATOM 455	HA	SER	A	33	-21.569	-1.263	0.274	1.00	0.00
ATOM 456	1HB	SER	A	33	-23.239	-0.548	-1.490	1.00	0.00
ATOM 457	2HB	SER	A	33	-23.869	-2.195	-1.452	1.00	0.00
ATOM 458	HG	SER	A	33	-24.533	-0.223	0.126	1.00	0.00
ATOM 459	N	THR	A	34	-21.029	-4.069	0.233	1.00	0.00

ATOM 460	CA	THR A	34	-21.031	-5.402	0.826	1.00	0.00
ATOM 461	C	THR A	34	-20.104	-5.460	2.035	1.00	0.00
ATOM 462	O	THR A	34	-19.356	-4.520	2.302	1.00	0.00
ATOM 463	CB	THR A	34	-20.604	-6.444	-0.210	1.00	0.00
ATOM 464	OG1	THR A	34	-19.314	-6.149	-0.714	1.00	0.00
ATOM 465	CG2	THR A	34	-21.549	-6.536	-1.389	1.00	0.00
ATOM 466	H	THR A	34	-20.198	-3.716	-0.147	1.00	0.00
ATOM 467	HA	THR A	34	-22.038	-5.620	1.148	1.00	0.00
ATOM 468	HB	THR A	34	-20.570	-7.414	0.264	1.00	0.00
ATOM 469	HG1	THR A	34	-18.860	-6.967	-0.929	1.00	0.00
ATOM 470	1HG2	THR A	34	-21.216	-7.317	-2.056	1.00	0.00
ATOM 471	2HG2	THR A	34	-21.561	-5.594	-1.916	1.00	0.00
ATOM 472	3HG2	THR A	34	-22.543	-6.764	-1.035	1.00	0.00
ATOM 473	N	THR A	35	-20.160	-6.570	2.765	1.00	0.00
ATOM 474	CA	THR A	35	-19.326	-6.750	3.947	1.00	0.00
ATOM 475	C	THR A	35	-17.909	-7.159	3.556	1.00	0.00
ATOM 476	O	THR A	35	-16.932	-6.586	4.040	1.00	0.00
ATOM 477	CB	THR A	35	-19.936	-7.803	4.872	1.00	0.00
ATOM 478	OG1	THR A	35	-21.351	-7.739	4.839	1.00	0.00
ATOM 479	CG2	THR A	35	-19.503	-7.656	6.315	1.00	0.00
ATOM 480	H	THR A	35	-20.777	-7.284	2.502	1.00	0.00
ATOM 481	HA	THR A	35	-19.284	-5.806	4.469	1.00	0.00
ATOM 482	HB	THR A	35	-19.633	-8.784	4.534	1.00	0.00
ATOM 483	HG1	THR A	35	-21.640	-6.881	5.158	1.00	0.00
ATOM 484	1HG2	THR A	35	-20.375	-7.563	6.945	1.00	0.00
ATOM 485	2HG2	THR A	35	-18.890	-6.774	6.418	1.00	0.00
ATOM 486	3HG2	THR A	35	-18.936	-8.526	6.611	1.00	0.00

ATOM 487	N	LYS A	36	-17.805	-8.151	2.680	1.00	0.00
ATOM 488	CA	LYS A	36	-16.507	-8.637	2.224	1.00	0.00
ATOM 489	C	LYS A	36	-15.706	-7.518	1.565	1.00	0.00
ATOM 490	O	LYS A	36	-14.476	-7.519	1.600	1.00	0.00
ATOM 491	CB	LYS A	36	-16.688	-9.794	1.240	1.00	0.00
ATOM 492	CG	LYS A	36	-15.523	-10.771	1.229	1.00	0.00
ATOM 493	CD	LYS A	36	-15.877	-12.072	1.932	1.00	0.00
ATOM 494	CE	LYS A	36	-14.695	-12.620	2.716	1.00	0.00
ATOM 495	NZ	LYS A	36	-14.818	-14.085	2.954	1.00	0.00
ATOM 496	H	LYS A	36	-18.621	-8.568	2.329	1.00	0.00
ATOM 497	HA	LYS A	36	-15.965	-8.992	3.087	1.00	0.00
ATOM 498	1HB	LYS A	36	-17.585	-10.338	1.502	1.00	0.00
ATOM 499	2HB	LYS A	36	-16.801	-9.391	0.244	1.00	0.00
ATOM 500	1HG	LYS A	36	-15.258	-10.988	0.205	1.00	0.00
ATOM 501	2HG	LYS A	36	-14.682	-10.317	1.731	1.00	0.00
ATOM 502	1HD	LYS A	36	-16.695	-11.891	2.613	1.00	0.00
ATOM 503	2HD	LYS A	36	-16.176	-12.800	1.192	1.00	0.00
ATOM 504	1HE	LYS A	36	-13.790	-12.429	2.159	1.00	0.00
ATOM 505	2HE	LYS A	36	-14.645	-12.112	3.668	1.00	0.00
ATOM 506	1HZ	LYS A	36	-15.482	-14.266	3.733	1.00	0.00
ATOM 507	2HZ	LYS A	36	-13.892	-14.486	3.203	1.00	0.00
ATOM 508	3HZ	LYS A	36	-15.168	-14.558	2.096	1.00	0.00
ATOM 509	N	TYR A	37	-16.413	-6.564	0.967	1.00	0.00
ATOM 510	CA	TYR A	37	-15.766	-5.439	0.301	1.00	0.00
ATOM 511	C	TYR A	37	-15.323	-4.387	1.313	1.00	0.00
ATOM 512	O	TYR A	37	-14.151	-4.013	1.360	1.00	0.00
ATOM 513	CB	TYR A	37	-16.717	-4.812	-0.721	1.00	0.00

ATOM 514	CG	TYR A	37	-16.121	-3.639	-1.465	1.00	0.00
ATOM 515	CD1	TYR A	37	-16.089	-2.372	-0.895	1.00	0.00
ATOM 516	CD2	TYR A	37	-15.591	-3.798	-2.740	1.00	0.00
ATOM 517	CE1	TYR A	37	-15.546	-1.298	-1.573	1.00	0.00
ATOM 518	CE2	TYR A	37	-15.045	-2.729	-3.424	1.00	0.00
ATOM 519	CZ	TYR A	37	-15.026	-1.482	-2.837	1.00	0.00
ATOM 520	OH	TYR A	37	-14.483	-0.414	-3.515	1.00	0.00
ATOM 521	H	TYR A	37	-17.391	-6.618	0.973	1.00	0.00
ATOM 522	HA	TYR A	37	-14.895	-5.815	-0.215	1.00	0.00
ATOM 523	1HB	TYR A	37	-16.996	-5.560	-1.449	1.00	0.00
ATOM 524	2HB	TYR A	37	-17.604	-4.466	-0.211	1.00	0.00
ATOM 525	HD1	TYR A	37	-16.498	-2.232	0.095	1.00	0.00
ATOM 526	HD2	TYR A	37	-15.608	-4.776	-3.196	1.00	0.00
ATOM 527	HE1	TYR A	37	-15.531	-0.321	-1.112	1.00	0.00
ATOM 528	HE2	TYR A	37	-14.637	-2.872	-4.414	1.00	0.00
ATOM 529	HH	TYR A	37	-13.925	0.093	-2.922	1.00	0.00
ATOM 530	N	GLN A	38	-16.266	-3.914	2.120	1.00	0.00
ATOM 531	CA	GLN A	38	-15.972	-2.905	3.131	1.00	0.00
ATOM 532	C	GLN A	38	-14.918	-3.407	4.113	1.00	0.00
ATOM 533	O	GLN A	38	-14.117	-2.629	4.630	1.00	0.00
ATOM 534	CB	GLN A	38	-17.247	-2.521	3.884	1.00	0.00
ATOM 535	CG	GLN A	38	-18.310	-1.891	2.998	1.00	0.00
ATOM 536	CD	GLN A	38	-18.516	-0.417	3.290	1.00	0.00
ATOM 537	OE1	GLN A	38	-18.491	0.009	4.445	1.00	0.00
ATOM 538	NE2	GLN A	38	-18.721	0.370	2.241	1.00	0.00
ATOM 539	H	GLN A	38	-17.183	-4.251	2.033	1.00	0.00
ATOM 540	HA	GLN A	38	-15.588	-2.032	2.624	1.00	0.00



ATOM 541	1HB	GLN	A	38	-17.665	-3.408	4.336	1.00	0.00
ATOM 542	2HB	GLN	A	38	-16.993	-1.816	4.662	1.00	0.00
ATOM 543	1HG	GLN	A	38	-18.011	-1.999	1.967	1.00	0.00
ATOM 544	2HG	GLN	A	38	-19.245	-2.408	3.158	1.00	0.00
ATOM 545	1HE2	GLN	A	38	-18.727	-0.037	1.350	1.00	0.00
ATOM 546	2HE2	GLN	A	38	-18.856	1.329	2.401	1.00	0.00
ATOM 547	N	GLN	A	39	-14.927	-4.711	4.366	1.00	0.00
ATOM 548	CA	GLN	A	39	-13.972	-5.317	5.286	1.00	0.00
ATOM 549	C	GLN	A	39	-12.562	-5.289	4.705	1.00	0.00
ATOM 550	O	GLN	A	39	-11.640	-4.747	5.314	1.00	0.00
ATOM 551	CB	GLN	A	39	-14.378	-6.759	5.598	1.00	0.00
ATOM 552	CG	GLN	A	39	-15.303	-6.884	6.798	1.00	0.00
ATOM 553	CD	GLN	A	39	-15.184	-8.229	7.489	1.00	0.00
ATOM 554	OE1	GLN	A	39	-15.229	-9.276	6.844	1.00	0.00
ATOM 555	NE2	GLN	A	39	-15.032	-8.206	8.808	1.00	0.00
ATOM 556	H	GLN	A	39	-15.591	-5.280	3.923	1.00	0.00
ATOM 557	HA	GLN	A	39	-13.984	-4.743	6.201	1.00	0.00
ATOM 558	1HB	GLN	A	39	-14.882	-7.173	4.738	1.00	0.00
ATOM 559	2HB	GLN	A	39	-13.488	-7.336	5.796	1.00	0.00
ATOM 560	1HG	GLN	A	39	-15.056	-6.109	7.509	1.00	0.00
ATOM 561	2HG	GLN	A	39	-16.322	-6.755	6.466	1.00	0.00
ATOM 562	1HE2	GLN	A	39	-15.005	-7.335	9.256	1.00	0.00
ATOM 563	2HE2	GLN	A	39	-14.951	-9.061	9.280	1.00	0.00
ATOM 564	N	THR	A	40	-12.403	-5.876	3.524	1.00	0.00
ATOM 565	CA	THR	A	40	-11.104	-5.918	2.861	1.00	0.00
ATOM 566	C	THR	A	40	-10.624	-4.512	2.515	1.00	0.00
ATOM 567	O	THR	A	40	-9.432	-4.216	2.601	1.00	0.00

ATOM 568	CB	THR A	40	-11.185	-6.767	1.592	1.00	0.00
ATOM 569	OG1	THR A	40	-11.826	-8.003	1.854	1.00	0.00
ATOM 570	CG2	THR A	40	-9.830	-7.073	0.990	1.00	0.00
ATOM 571	H	THR A	40	-13.176	-6.291	3.088	1.00	0.00
ATOM 572	HA	THR A	40	-10.399	-6.370	3.541	1.00	0.00
ATOM 573	HB	THR A	40	-11.764	-6.235	0.850	1.00	0.00
ATOM 574	HG1	THR A	40	-11.867	-8.521	1.046	1.00	0.00
ATOM 575	1HG2	THR A	40	-9.340	-6.150	0.718	1.00	0.00
ATOM 576	2HG2	THR A	40	-9.957	-7.686	0.109	1.00	0.00
ATOM 577	3HG2	THR A	40	-9.226	-7.601	1.712	1.00	0.00
ATOM 578	N	LYS A	41	-11.557	-3.651	2.126	1.00	0.00
ATOM 579	CA	LYS A	41	-11.227	-2.277	1.768	1.00	0.00
ATOM 580	C	LYS A	41	-10.645	-1.527	2.962	1.00	0.00
ATOM 581	O	LYS A	41	-9.683	-0.772	2.825	1.00	0.00
ATOM 582	CB	LYS A	41	-12.471	-1.549	1.253	1.00	0.00
ATOM 583	CG	LYS A	41	-12.173	-0.183	0.658	1.00	0.00
ATOM 584	CD	LYS A	41	-13.394	0.722	0.700	1.00	0.00
ATOM 585	CE	LYS A	41	-13.000	2.188	0.758	1.00	0.00
ATOM 586	NZ	LYS A	41	-14.187	3.079	0.876	1.00	0.00
ATOM 587	H	LYS A	41	-12.491	-3.947	2.078	1.00	0.00
ATOM 588	HA	LYS A	41	-10.488	-2.308	0.982	1.00	0.00
ATOM 589	1HB	LYS A	41	-12.938	-2.156	0.490	1.00	0.00
ATOM 590	2HB	LYS A	41	-13.163	-1.419	2.071	1.00	0.00
ATOM 591	1HG	LYS A	41	-11.376	0.278	1.222	1.00	0.00
ATOM 592	2HG	LYS A	41	-11.864	-0.308	-0.370	1.00	0.00
ATOM 593	1HD	LYS A	41	-13.985	0.553	-0.188	1.00	0.00
ATOM 594	2HD	LYS A	41	-13.979	0.480	1.576	1.00	0.00

ATOM 595	1HE	LYS	A	41	-12.359	2.342	1.614	1.00	0.00
ATOM 596	2HE	LYS	A	41	-12.460	2.438	-0.145	1.00	0.00
ATOM 597	1HZ	LYS	A	41	-14.978	2.564	1.311	1.00	0.00
ATOM 598	2HZ	LYS	A	41	-14.479	3.412	-0.065	1.00	0.00
ATOM 599	3HZ	LYS	A	41	-13.957	3.904	1.467	1.00	0.00
ATOM 600	N	ARG	A	42	-11.234	-1.743	4.135	1.00	0.00
ATOM 601	CA	ARG	A	42	-10.772	-1.088	5.353	1.00	0.00
ATOM 602	C	ARG	A	42	-9.445	-1.679	5.820	1.00	0.00
ATOM 603	O	ARG	A	42	-8.577	-0.963	6.318	1.00	0.00
ATOM 604	CB	ARG	A	42	-11.821	-1.223	6.458	1.00	0.00
ATOM 605	CG	ARG	A	42	-11.851	-0.042	7.417	1.00	0.00
ATOM 606	CD	ARG	A	42	-13.265	0.480	7.617	1.00	0.00
ATOM 607	NE	ARG	A	42	-13.292	1.927	7.819	1.00	0.00
ATOM 608	CZ	ARG	A	42	-14.379	2.677	7.662	1.00	0.00
ATOM 609	NH1	ARG	A	42	-15.532	2.122	7.306	1.00	0.00
ATOM 610	NH2	ARG	A	42	-14.317	3.987	7.862	1.00	0.00
ATOM 611	H	ARG	A	42	-11.996	-2.357	4.181	1.00	0.00
ATOM 612	HA	ARG	A	42	-10.628	-0.041	5.133	1.00	0.00
ATOM 613	1HB	ARG	A	42	-12.796	-1.316	6.003	1.00	0.00
ATOM 614	2HB	ARG	A	42	-11.614	-2.117	7.029	1.00	0.00
ATOM 615	1HG	ARG	A	42	-11.457	-0.357	8.371	1.00	0.00
ATOM 616	2HG	ARG	A	42	-11.237	0.750	7.015	1.00	0.00
ATOM 617	1HD	ARG	A	42	-13.852	0.238	6.743	1.00	0.00
ATOM 618	2HD	ARG	A	42	-13.694	-0.002	8.484	1.00	0.00
ATOM 619	HE	ARG	A	42	-12.454	2.363	8.082	1.00	0.00
ATOM 620	1HH1	ARG	A	42	-15.587	1.135	7.153	1.00	0.00
ATOM 621	2HH1	ARG	A	42	-16.346	2.691	7.191	1.00	0.00

ATOM 622	1HH2	ARG	A	42	-13.451	4.410	8.131	1.00	0.00
ATOM 623	2HH2	ARG	A	42	-15.134	4.550	7.745	1.00	0.00
ATOM 624	N	SER	A	43	-9.297	-2.990	5.656	1.00	0.00
ATOM 625	CA	SER	A	43	-8.076	-3.676	6.060	1.00	0.00
ATOM 626	C	SER	A	43	-6.870	-3.137	5.296	1.00	0.00
ATOM 627	O	SER	A	43	-5.818	-2.875	5.880	1.00	0.00
ATOM 628	CB	SER	A	43	-8.211	-5.183	5.827	1.00	0.00
ATOM 629	OG	SER	A	43	-7.676	-5.917	6.914	1.00	0.00
ATOM 630	H	SER	A	43	-10.025	-3.507	5.252	1.00	0.00
ATOM 631	HA	SER	A	43	-7.928	-3.497	7.114	1.00	0.00
ATOM 632	1HB	SER	A	43	-9.255	-5.435	5.716	1.00	0.00
ATOM 633	2HB	SER	A	43	-7.677	-5.455	4.927	1.00	0.00
ATOM 634	HG	SER	A	43	-8.265	-5.846	7.669	1.00	0.00
ATOM 635	N	ILE	A	44	-7.032	-2.970	3.987	1.00	0.00
ATOM 636	CA	ILE	A	44	-5.958	-2.461	3.143	1.00	0.00
ATOM 637	C	ILE	A	44	-5.678	-0.992	3.441	1.00	0.00
ATOM 638	O	ILE	A	44	-4.529	-0.595	3.635	1.00	0.00
ATOM 639	CB	ILE	A	44	-6.295	-2.616	1.647	1.00	0.00
ATOM 640	CG1	ILE	A	44	-6.721	-4.054	1.342	1.00	0.00
ATOM 641	CG2	ILE	A	44	-5.102	-2.220	0.790	1.00	0.00
ATOM 642	CD1	ILE	A	44	-7.678	-4.166	0.176	1.00	0.00
ATOM 643	H	ILE	A	44	-7.894	-3.195	3.579	1.00	0.00
ATOM 644	HA	ILE	A	44	-5.068	-3.037	3.352	1.00	0.00
ATOM 645	HB	ILE	A	44	-7.111	-1.949	1.413	1.00	0.00
ATOM 646	1HG1	ILE	A	44	-5.845	-4.640	1.108	1.00	0.00
ATOM 647	2HG1	ILE	A	44	-7.206	-4.472	2.212	1.00	0.00
ATOM 648	1HG2	ILE	A	44	-4.188	-2.491	1.298	1.00	0.00

ATOM 649	2HG2	ILE	A	44	-5.118	-1.153	0.621	1.00	0.00
ATOM 650	3HG2	ILE	A	44	-5.152	-2.735	-0.158	1.00	0.00
ATOM 651	1HD1	ILE	A	44	-8.642	-3.771	0.462	1.00	0.00
ATOM 652	2HD1	ILE	A	44	-7.784	-5.203	-0.107	1.00	0.00
ATOM 653	3HD1	ILE	A	44	-7.293	-3.602	-0.662	1.00	0.00
ATOM 654	N	GLU	A	45	-6.737	-0.188	3.477	1.00	0.00
ATOM 655	CA	GLU	A	45	-6.605	1.237	3.753	1.00	0.00
ATOM 656	C	GLU	A	45	-5.985	1.470	5.127	1.00	0.00
ATOM 657	O	GLU	A	45	-5.253	2.438	5.334	1.00	0.00
ATOM 658	CB	GLU	A	45	-7.971	1.922	3.667	1.00	0.00
ATOM 659	CG	GLU	A	45	-8.017	3.063	2.663	1.00	0.00
ATOM 660	CD	GLU	A	45	-7.820	4.419	3.312	1.00	0.00
ATOM 661	OE1	GLU	A	45	-6.825	5.097	2.980	1.00	0.00
ATOM 662	OE2	GLU	A	45	-8.661	4.803	4.152	1.00	0.00
ATOM 663	H	GLU	A	45	-7.628	-0.564	3.315	1.00	0.00
ATOM 664	HA	GLU	A	45	-5.953	1.660	3.002	1.00	0.00
ATOM 665	1HB	GLU	A	45	-8.711	1.190	3.382	1.00	0.00
ATOM 666	2HB	GLU	A	45	-8.226	2.318	4.640	1.00	0.00
ATOM 667	1HG	GLU	A	45	-7.237	2.914	1.933	1.00	0.00
ATOM 668	2HG	GLU	A	45	-8.978	3.052	2.170	1.00	0.00
ATOM 669	N	ASN	A	46	-6.284	0.574	6.063	1.00	0.00
ATOM 670	CA	ASN	A	46	-5.755	0.681	7.418	1.00	0.00
ATOM 671	C	ASN	A	46	-4.315	0.182	7.479	1.00	0.00
ATOM 672	O	ASN	A	46	-3.465	0.789	8.130	1.00	0.00
ATOM 673	CB	ASN	A	46	-6.626	-0.116	8.390	1.00	0.00
ATOM 674	CG	ASN	A	46	-6.283	0.169	9.840	1.00	0.00
ATOM 675	OD1	ASN	A	46	-6.013	1.309	10.214	1.00	0.00

ATOM 676	ND2	ASN	A	46	-6.292	-0.872	10.665	1.00	0.00
ATOM 677	H	ASN	A	46	-6.871	-0.175	5.837	1.00	0.00
ATOM 678	HA	ASN	A	46	-5.775	1.722	7.700	1.00	0.00
ATOM 679	1HB	ASN	A	46	-7.662	0.139	8.229	1.00	0.00
ATOM 680	2HB	ASN	A	46	-6.487	-1.171	8.207	1.00	0.00
ATOM 681	1HD2	ASN	A	46	-6.515	-1.753	10.298	1.00	0.00
ATOM 682	2HD2	ASN	A	46	-6.074	-0.717	11.608	1.00	0.00
ATOM 683	N	ALA	A	47	-4.050	-0.928	6.798	1.00	0.00
ATOM 684	CA	ALA	A	47	-2.713	-1.509	6.774	1.00	0.00
ATOM 685	C	ALA	A	47	-1.727	-0.586	6.067	1.00	0.00
ATOM 686	O	ALA	A	47	-0.584	-0.435	6.497	1.00	0.00
ATOM 687	CB	ALA	A	47	-2.743	-2.871	6.097	1.00	0.00
ATOM 688	H	ALA	A	47	-4.771	-1.366	6.299	1.00	0.00
ATOM 689	HA	ALA	A	47	-2.391	-1.648	7.796	1.00	0.00
ATOM 690	1HB	ALA	A	47	-1.868	-3.435	6.384	1.00	0.00
ATOM 691	2HB	ALA	A	47	-2.751	-2.740	5.025	1.00	0.00
ATOM 692	3HB	ALA	A	47	-3.631	-3.405	6.401	1.00	0.00
ATOM 693	N	LEU	A	48	-2.178	0.030	4.979	1.00	0.00
ATOM 694	CA	LEU	A	48	-1.335	0.938	4.211	1.00	0.00
ATOM 695	C	LEU	A	48	-1.088	2.233	4.979	1.00	0.00
ATOM 696	O	LEU	A	48	-0.041	2.863	4.834	1.00	0.00
ATOM 697	CB	LEU	A	48	-1.983	1.250	2.861	1.00	0.00
ATOM 698	CG	LEU	A	48	-2.063	0.070	1.892	1.00	0.00
ATOM 699	CD1	LEU	A	48	-2.938	0.417	0.697	1.00	0.00
ATOM 700	CD2	LEU	A	48	-0.671	-0.339	1.434	1.00	0.00
ATOM 701	H	LEU	A	48	-3.099	-0.131	4.685	1.00	0.00
ATOM 702	HA	LEU	A	48	-0.388	0.449	4.041	1.00	0.00

ATOM 703	1HB	LEU	A	48	-2.986	1.610	3.040	1.00	0.00
ATOM 704	2HB	LEU	A	48	-1.416	2.038	2.386	1.00	0.00
ATOM 705	HG	LEU	A	48	-2.511	-0.774	2.398	1.00	0.00
ATOM 706	1HD1	LEU	A	48	-2.481	1.221	0.139	1.00	0.00
ATOM 707	2HD1	LEU	A	48	-3.913	0.729	1.043	1.00	0.00
ATOM 708	3HD1	LEU	A	48	-3.042	-0.449	0.061	1.00	0.00
ATOM 709	1HD2	LEU	A	48	0.060	0.013	2.145	1.00	0.00
ATOM 710	2HD2	LEU	A	48	-0.469	0.094	0.466	1.00	0.00
ATOM 711	3HD2	LEU	A	48	-0.616	-1.415	1.364	1.00	0.00
ATOM 712	N	ASN	A	49	-2.060	2.624	5.798	1.00	0.00
ATOM 713	CA	ASN	A	49	-1.949	3.844	6.591	1.00	0.00
ATOM 714	C	ASN	A	49	-0.719	3.798	7.493	1.00	0.00
ATOM 715	O	ASN	A	49	0.218	4.577	7.321	1.00	0.00
ATOM 716	CB	ASN	A	49	-3.209	4.043	7.436	1.00	0.00
ATOM 717	CG	ASN	A	49	-3.633	5.497	7.506	1.00	0.00
ATOM 718	OD1	ASN	A	49	-3.364	6.188	8.488	1.00	0.00
ATOM 719	ND2	ASN	A	49	-4.302	5.970	6.459	1.00	0.00
ATOM 720	H	ASN	A	49	-2.871	2.079	5.871	1.00	0.00
ATOM 721	HA	ASN	A	49	-1.849	4.674	5.908	1.00	0.00
ATOM 722	1HB	ASN	A	49	-4.018	3.473	7.005	1.00	0.00
ATOM 723	2HB	ASN	A	49	-3.021	3.693	8.440	1.00	0.00
ATOM 724	1HD2	ASN	A	49	-4.481	5.361	5.713	1.00	0.00
ATOM 725	2HD2	ASN	A	49	-4.589	6.906	6.478	1.00	0.00
ATOM 726	N	GLN	A	50	-0.731	2.880	8.454	1.00	0.00
ATOM 727	CA	GLN	A	50	0.383	2.732	9.382	1.00	0.00
ATOM 728	C	GLN	A	50	1.673	2.401	8.638	1.00	0.00
ATOM 729	O	GLN	A	50	2.768	2.738	9.091	1.00	0.00

ATOM 730	CB	GLN A	50	0.079	1.639	10.408	1.00	0.00
ATOM 731	CG	GLN A	50	-0.378	0.329	9.784	1.00	0.00
ATOM 732	CD	GLN A	50	-1.596	-0.253	10.474	1.00	0.00
ATOM 733	OE1	GLN A	50	-2.340	0.457	11.151	1.00	0.00
ATOM 734	NE2	GLN A	50	-1.807	-1.552	10.306	1.00	0.00
ATOM 735	H	GLN A	50	-1.507	2.287	8.540	1.00	0.00
ATOM 736	HA	GLN A	50	0.511	3.671	9.899	1.00	0.00
ATOM 737	1HB	GLN A	50	0.969	1.445	10.987	1.00	0.00
ATOM 738	2HB	GLN A	50	-0.700	1.989	11.069	1.00	0.00
ATOM 739	1HG	GLN A	50	-0.622	0.506	8.747	1.00	0.00
ATOM 740	2HG	GLN A	50	0.429	-0.386	9.847	1.00	0.00
ATOM 741	1HE2	GLN A	50	-1.173	-2.056	9.753	1.00	0.00
ATOM 742	2HE2	GLN A	50	-2.587	-1.956	10.740	1.00	0.00
ATOM 743	N	LEU A	51	1.537	1.739	7.493	1.00	0.00
ATOM 744	CA	LEU A	51	2.691	1.361	6.686	1.00	0.00
ATOM 745	C	LEU A	51	3.495	2.590	6.273	1.00	0.00
ATOM 746	O	LEU A	51	4.724	2.587	6.327	1.00	0.00
ATOM 747	CB	LEU A	51	2.240	0.592	5.442	1.00	0.00
ATOM 748	CG	LEU A	51	3.356	-0.127	4.684	1.00	0.00
ATOM 749	CD1	LEU A	51	2.817	-1.372	3.997	1.00	0.00
ATOM 750	CD2	LEU A	51	3.997	0.808	3.670	1.00	0.00
ATOM 751	H	LEU A	51	0.639	1.497	7.184	1.00	0.00
ATOM 752	HA	LEU A	51	3.320	0.720	7.285	1.00	0.00
ATOM 753	1HB	LEU A	51	1.507	-0.142	5.746	1.00	0.00
ATOM 754	2HB	LEU A	51	1.767	1.290	4.766	1.00	0.00
ATOM 755	HG	LEU A	51	4.117	-0.435	5.384	1.00	0.00
ATOM 756	1HD1	LEU A	51	1.794	-1.203	3.695	1.00	0.00



ATOM 757	2HD1	LEU	A	51	2.858	-2.207	4.681	1.00	0.00
ATOM 758	3HD1	LEU	A	51	3.418	-1.592	3.127	1.00	0.00
ATOM 759	1HD2	LEU	A	51	3.238	1.196	3.006	1.00	0.00
ATOM 760	2HD2	LEU	A	51	4.734	0.265	3.094	1.00	0.00
ATOM 761	3HD2	LEU	A	51	4.477	1.626	4.186	1.00	0.00
ATOM 762	N	PHE	A	52	2.793	3.641	5.862	1.00	0.00
ATOM 763	CA	PHE	A	52	3.441	4.877	5.441	1.00	0.00
ATOM 764	C	PHE	A	52	4.078	5.592	6.629	1.00	0.00
ATOM 765	O	PHE	A	52	5.219	6.046	6.554	1.00	0.00
ATOM 766	CB	PHE	A	52	2.430	5.801	4.760	1.00	0.00
ATOM 767	CG	PHE	A	52	1.623	5.124	3.688	1.00	0.00
ATOM 768	CD1	PHE	A	52	0.251	5.303	3.617	1.00	0.00
ATOM 769	CD2	PHE	A	52	2.238	4.309	2.751	1.00	0.00
ATOM 770	CE1	PHE	A	52	-0.493	4.683	2.632	1.00	0.00
ATOM 771	CE2	PHE	A	52	1.499	3.686	1.763	1.00	0.00
ATOM 772	CZ	PHE	A	52	0.132	3.873	1.704	1.00	0.00
ATOM 773	H	PHE	A	52	1.815	3.584	5.842	1.00	0.00
ATOM 774	HA	PHE	A	52	4.215	4.621	4.733	1.00	0.00
ATOM 775	1HB	PHE	A	52	1.743	6.180	5.501	1.00	0.00
ATOM 776	2HB	PHE	A	52	2.956	6.629	4.309	1.00	0.00
ATOM 777	HD1	PHE	A	52	-0.238	5.937	4.343	1.00	0.00
ATOM 778	HD2	PHE	A	52	3.308	4.162	2.797	1.00	0.00
ATOM 779	HE1	PHE	A	52	-1.562	4.830	2.589	1.00	0.00
ATOM 780	HE2	PHE	A	52	1.991	3.053	1.039	1.00	0.00
ATOM 781	HZ	PHE	A	52	-0.448	3.386	0.934	1.00	0.00
ATOM 782	N	ARG	A	53	3.331	5.687	7.724	1.00	0.00
ATOM 783	CA	ARG	A	53	3.820	6.348	8.929	1.00	0.00

ATOM 784	C	ARG A	53	5.082	5.668	9.454	1.00	0.00
ATOM 785	O	ARG A	53	5.907	6.297	10.115	1.00	0.00
ATOM 786	CB	ARG A	53	2.739	6.346	10.010	1.00	0.00
ATOM 787	CG	ARG A	53	1.831	7.564	9.963	1.00	0.00
ATOM 788	CD	ARG A	53	0.628	7.398	10.877	1.00	0.00
ATOM 789	NE	ARG A	53	0.229	8.663	11.491	1.00	0.00
ATOM 790	CZ	ARG A	53	0.845	9.206	12.538	1.00	0.00
ATOM 791	NH1	ARG A	53	1.888	8.599	13.091	1.00	0.00
ATOM 792	NH2	ARG A	53	0.418	10.360	13.034	1.00	0.00
ATOM 793	H	ARG A	53	2.428	5.305	7.722	1.00	0.00
ATOM 794	HA	ARG A	53	4.058	7.368	8.673	1.00	0.00
ATOM 795	1HB	ARG A	53	2.128	5.464	9.890	1.00	0.00
ATOM 796	2HB	ARG A	53	3.215	6.316	10.979	1.00	0.00
ATOM 797	1HG	ARG A	53	2.392	8.432	10.278	1.00	0.00
ATOM 798	2HG	ARG A	53	1.486	7.704	8.950	1.00	0.00
ATOM 799	1HD	ARG A	53	-0.198	7.014	10.299	1.00	0.00
ATOM 800	2HD	ARG A	53	0.879	6.694	11.657	1.00	0.00
ATOM 801	HE	ARG A	53	-0.539	9.131	11.102	1.00	0.00
ATOM 802	1HH1	ARG A	53	2.215	7.729	12.723	1.00	0.00
ATOM 803	2HH1	ARG A	53	2.347	9.012	13.878	1.00	0.00
ATOM 804	1HH2	ARG A	53	-0.367	10.821	12.621	1.00	0.00
ATOM 805	2HH2	ARG A	53	0.880	10.768	13.821	1.00	0.00
ATOM 806	N	ASN A	54	5.226	4.380	9.156	1.00	0.00
ATOM 807	CA	ASN A	54	6.388	3.618	9.600	1.00	0.00
ATOM 808	C	ASN A	54	7.265	3.220	8.418	1.00	0.00
ATOM 809	O	ASN A	54	7.874	2.150	8.416	1.00	0.00
ATOM 810	CB	ASN A	54	5.943	2.368	10.363	1.00	0.00

ATOM 811	CG	ASN A	54	4.922	2.681	11.439	1.00	0.00
ATOM 812	OD1	ASN A	54	5.059	3.657	12.177	1.00	0.00
ATOM 813	ND2	ASN A	54	3.890	1.850	11.535	1.00	0.00
ATOM 814	H	ASN A	54	4.535	3.930	8.626	1.00	0.00
ATOM 815	HA	ASN A	54	6.963	4.248	10.264	1.00	0.00
ATOM 816	1HB	ASN A	54	5.503	1.669	9.669	1.00	0.00
ATOM 817	2HB	ASN A	54	6.804	1.914	10.830	1.00	0.00
ATOM 818	1HD2	ASN A	54	3.847	1.094	10.913	1.00	0.00
ATOM 819	2HD2	ASN A	54	3.215	2.028	12.221	1.00	0.00
ATOM 820	N	SER A	55	7.326	4.087	7.413	1.00	0.00
ATOM 821	CA	SER A	55	8.129	3.825	6.224	1.00	0.00
ATOM 822	C	SER A	55	9.353	4.735	6.183	1.00	0.00
ATOM 823	O	SER A	55	9.593	5.512	7.106	1.00	0.00
ATOM 824	CB	SER A	55	7.288	4.024	4.962	1.00	0.00
ATOM 825	OG	SER A	55	7.154	5.400	4.651	1.00	0.00
ATOM 826	H	SER A	55	6.818	4.924	7.472	1.00	0.00
ATOM 827	HA	SER A	55	8.459	2.798	6.268	1.00	0.00
ATOM 828	1HB	SER A	55	7.767	3.526	4.131	1.00	0.00
ATOM 829	2HB	SER A	55	6.306	3.605	5.116	1.00	0.00
ATOM 830	HG	SER A	55	6.947	5.891	5.449	1.00	0.00
ATOM 831	N	SER A	56	10.122	4.633	5.103	1.00	0.00
ATOM 832	CA	SER A	56	11.320	5.448	4.941	1.00	0.00
ATOM 833	C	SER A	56	10.957	6.864	4.506	1.00	0.00
ATOM 834	O	SER A	56	11.662	7.823	4.825	1.00	0.00
ATOM 835	CB	SER A	56	12.260	4.812	3.914	1.00	0.00
ATOM 836	OG	SER A	56	12.217	3.398	3.990	1.00	0.00
ATOM 837	H	SER A	56	9.878	3.997	4.400	1.00	0.00

ATOM 838	HA	SER A	56	11.822	5.495	5.895	1.00	0.00
ATOM 839	1HB	SER A	56	11.963	5.116	2.920	1.00	0.00
ATOM 840	2HB	SER A	56	13.271	5.141	4.103	1.00	0.00
ATOM 841	HG	SER A	56	12.712	3.023	3.258	1.00	0.00
ATOM 842	N	ILE A	57	9.851	6.990	3.780	1.00	0.00
ATOM 843	CA	ILE A	57	9.390	8.288	3.304	1.00	0.00
ATOM 844	C	ILE A	57	8.128	8.722	4.043	1.00	0.00
ATOM 845	O	ILE A	57	7.112	9.042	3.426	1.00	0.00
ATOM 846	CB	ILE A	57	9.108	8.263	1.789	1.00	0.00
ATOM 847	CG1	ILE A	57	8.104	7.161	1.452	1.00	0.00
ATOM 848	CG2	ILE A	57	10.401	8.066	1.012	1.00	0.00
ATOM 849	CD1	ILE A	57	7.751	7.093	-0.018	1.00	0.00
ATOM 850	H	ILE A	57	9.331	6.189	3.561	1.00	0.00
ATOM 851	HA	ILE A	57	10.173	9.009	3.493	1.00	0.00
ATOM 852	HB	ILE A	57	8.692	9.219	1.508	1.00	0.00
ATOM 853	1HG1	ILE A	57	8.516	6.206	1.737	1.00	0.00
ATOM 854	2HG1	ILE A	57	7.191	7.334	2.004	1.00	0.00
ATOM 855	1HG2	ILE A	57	10.205	8.172	-0.045	1.00	0.00
ATOM 856	2HG2	ILE A	57	10.792	7.078	1.209	1.00	0.00
ATOM 857	3HG2	ILE A	57	11.123	8.807	1.321	1.00	0.00
ATOM 858	1HD1	ILE A	57	6.872	6.479	-0.151	1.00	0.00
ATOM 859	2HD1	ILE A	57	8.576	6.662	-0.567	1.00	0.00
ATOM 860	3HD1	ILE A	57	7.554	8.088	-0.387	1.00	0.00
ATOM 861	N	LYS A	58	8.200	8.730	5.369	1.00	0.00
ATOM 862	CA	LYS A	58	7.064	9.124	6.196	1.00	0.00
ATOM 863	C	LYS A	58	7.124	10.609	6.541	1.00	0.00
ATOM 864	O	LYS A	58	6.662	11.028	7.602	1.00	0.00

ATOM 865	CB	LYS A	58	7.029	8.291	7.479	1.00	0.00
ATOM 866	CG	LYS A	58	8.222	8.528	8.390	1.00	0.00
ATOM 867	CD	LYS A	58	8.303	7.478	9.485	1.00	0.00
ATOM 868	CE	LYS A	58	9.736	7.255	9.939	1.00	0.00
ATOM 869	NZ	LYS A	58	9.835	6.178	10.962	1.00	0.00
ATOM 870	H	LYS A	58	9.037	8.463	5.803	1.00	0.00
ATOM 871	HA	LYS A	58	6.163	8.935	5.630	1.00	0.00
ATOM 872	1HB	LYS A	58	6.129	8.535	8.027	1.00	0.00
ATOM 873	2HB	LYS A	58	7.007	7.245	7.214	1.00	0.00
ATOM 874	1HG	LYS A	58	9.126	8.490	7.801	1.00	0.00
ATOM 875	2HG	LYS A	58	8.126	9.503	8.845	1.00	0.00
ATOM 876	1HD	LYS A	58	7.716	7.806	10.330	1.00	0.00
ATOM 877	2HD	LYS A	58	7.905	6.547	9.108	1.00	0.00
ATOM 878	1HE	LYS A	58	10.333	6.980	9.081	1.00	0.00
ATOM 879	2HE	LYS A	58	10.115	8.175	10.359	1.00	0.00
ATOM 880	1HZ	LYS A	58	10.831	5.933	11.130	1.00	0.00
ATOM 881	2HZ	LYS A	58	9.332	5.328	10.636	1.00	0.00
ATOM 882	3HZ	LYS A	58	9.411	6.496	11.857	1.00	0.00
ATOM 883	N	SER A	59	7.693	11.402	5.638	1.00	0.00
ATOM 884	CA	SER A	59	7.811	12.840	5.849	1.00	0.00
ATOM 885	C	SER A	59	7.030	13.612	4.789	1.00	0.00
ATOM 886	O	SER A	59	6.452	14.662	5.071	1.00	0.00
ATOM 887	CB	SER A	59	9.281	13.262	5.822	1.00	0.00
ATOM 888	OG	SER A	59	9.540	14.277	6.777	1.00	0.00
ATOM 889	H	SER A	59	8.042	11.011	4.812	1.00	0.00
ATOM 890	HA	SER A	59	7.399	13.069	6.821	1.00	0.00
ATOM 891	1HB	SER A	59	9.902	12.407	6.047	1.00	0.00

ATOM 892	2HB	SER A	59	9.527	13.638	4.839	1.00	0.00
ATOM 893	HG	SER A	59	10.468	14.518	6.744	1.00	0.00
ATOM 894	N	TYR A	60	7.016	13.084	3.569	1.00	0.00
ATOM 895	CA	TYR A	60	6.307	13.723	2.467	1.00	0.00
ATOM 896	C	TYR A	60	5.030	12.963	2.121	1.00	0.00
ATOM 897	O	TYR A	60	4.087	13.533	1.574	1.00	0.00
ATOM 898	CB	TYR A	60	7.210	13.811	1.236	1.00	0.00
ATOM 899	CG	TYR A	60	8.198	14.955	1.289	1.00	0.00
ATOM 900	CD1	TYR A	60	9.567	14.717	1.294	1.00	0.00
ATOM 901	CD2	TYR A	60	7.762	16.272	1.335	1.00	0.00
ATOM 902	CE1	TYR A	60	10.473	15.760	1.344	1.00	0.00
ATOM 903	CE2	TYR A	60	8.660	17.321	1.384	1.00	0.00
ATOM 904	CZ	TYR A	60	10.014	17.060	1.388	1.00	0.00
ATOM 905	OH	TYR A	60	10.912	18.100	1.437	1.00	0.00
ATOM 906	H	TYR A	60	7.496	12.246	3.406	1.00	0.00
ATOM 907	HA	TYR A	60	6.042	14.722	2.780	1.00	0.00
ATOM 908	1HB	TYR A	60	7.772	12.893	1.143	1.00	0.00
ATOM 909	2HB	TYR A	60	6.597	13.941	0.357	1.00	0.00
ATOM 910	HD1	TYR A	60	9.923	13.698	1.258	1.00	0.00
ATOM 911	HD2	TYR A	60	6.700	16.475	1.333	1.00	0.00
ATOM 912	HE1	TYR A	60	11.533	15.554	1.346	1.00	0.00
ATOM 913	HE2	TYR A	60	8.301	18.339	1.419	1.00	0.00
ATOM 914	HH	TYR A	60	11.506	17.977	2.183	1.00	0.00
ATOM 915	N	PHE A	61	5.004	11.671	2.442	1.00	0.00
ATOM 916	CA	PHE A	61	3.841	10.836	2.162	1.00	0.00
ATOM 917	C	PHE A	61	2.588	11.407	2.820	1.00	0.00
ATOM 918	O	PHE A	61	2.648	11.961	3.917	1.00	0.00

ATOM 919	CB	PHE A	61	4.080	9.406	2.651	1.00	0.00
ATOM 920	CG	PHE A	61	3.191	8.391	1.993	1.00	0.00
ATOM 921	CD1	PHE A	61	1.832	8.364	2.257	1.00	0.00
ATOM 922	CD2	PHE A	61	3.717	7.462	1.108	1.00	0.00
ATOM 923	CE1	PHE A	61	1.011	7.432	1.650	1.00	0.00
ATOM 924	CE2	PHE A	61	2.901	6.527	0.499	1.00	0.00
ATOM 925	CZ	PHE A	61	1.546	6.512	0.771	1.00	0.00
ATOM 926	H	PHE A	61	5.786	11.269	2.875	1.00	0.00
ATOM 927	HA	PHE A	61	3.695	10.821	1.092	1.00	0.00
ATOM 928	1HB	PHE A	61	5.105	9.132	2.449	1.00	0.00
ATOM 929	2HB	PHE A	61	3.904	9.364	3.716	1.00	0.00
ATOM 930	HD1	PHE A	61	1.411	9.083	2.945	1.00	0.00
ATOM 931	HD2	PHE A	61	4.775	7.472	0.896	1.00	0.00
ATOM 932	HE1	PHE A	61	-0.047	7.422	1.865	1.00	0.00
ATOM 933	HE2	PHE A	61	3.323	5.809	-0.189	1.00	0.00
ATOM 934	HZ	PHE A	61	0.908	5.782	0.294	1.00	0.00
ATOM 935	N	SER A	62	1.454	11.266	2.141	1.00	0.00
ATOM 936	CA	SER A	62	0.186	11.766	2.659	1.00	0.00
ATOM 937	C	SER A	62	-0.721	10.614	3.081	1.00	0.00
ATOM 938	O	SER A	62	-0.940	10.387	4.270	1.00	0.00
ATOM 939	CB	SER A	62	-0.517	12.624	1.605	1.00	0.00
ATOM 940	OG	SER A	62	-0.095	13.975	1.683	1.00	0.00
ATOM 941	H	SER A	62	1.471	10.815	1.273	1.00	0.00
ATOM 942	HA	SER A	62	0.398	12.376	3.524	1.00	0.00
ATOM 943	1HB	SER A	62	-0.283	12.244	0.621	1.00	0.00
ATOM 944	2HB	SER A	62	-1.584	12.583	1.763	1.00	0.00
ATOM 945	HG	SER A	62	-0.469	14.470	0.950	1.00	0.00

ATOM 946	N	ASP	A	63	-1.246	9.890	2.097	1.00	0.00
ATOM 947	CA	ASP	A	63	-2.128	8.761	2.366	1.00	0.00
ATOM 948	C	ASP	A	63	-2.416	7.976	1.090	1.00	0.00
ATOM 949	O	ASP	A	63	-1.995	8.366	0.001	1.00	0.00
ATOM 950	CB	ASP	A	63	-3.440	9.249	2.985	1.00	0.00
ATOM 951	CG	ASP	A	63	-3.411	9.221	4.500	1.00	0.00
ATOM 952	OD1	ASP	A	63	-3.410	8.112	5.074	1.00	0.00
ATOM 953	OD2	ASP	A	63	-3.387	10.309	5.114	1.00	0.00
ATOM 954	H	ASP	A	63	-1.033	10.120	1.168	1.00	0.00
ATOM 955	HA	ASP	A	63	-1.630	8.112	3.069	1.00	0.00
ATOM 956	1HB	ASP	A	63	-3.626	10.265	2.666	1.00	0.00
ATOM 957	2HB	ASP	A	63	-4.248	8.617	2.647	1.00	0.00
ATOM 958	N	CYS	A	64	-3.135	6.868	1.235	1.00	0.00
ATOM 959	CA	CYS	A	64	-3.481	6.027	0.095	1.00	0.00
ATOM 960	C	CYS	A	64	-4.920	6.275	-0.348	1.00	0.00
ATOM 961	O	CYS	A	64	-5.678	6.963	0.335	1.00	0.00
ATOM 962	CB	CYS	A	64	-3.289	4.551	0.447	1.00	0.00
ATOM 963	SG	CYS	A	64	-4.291	3.990	1.843	1.00	0.00
ATOM 964	H	CYS	A	64	-3.442	6.610	2.129	1.00	0.00
ATOM 965	HA	CYS	A	64	-2.818	6.283	-0.719	1.00	0.00
ATOM 966	1HB	CYS	A	64	-3.553	3.948	-0.409	1.00	0.00
ATOM 967	2HB	CYS	A	64	-2.252	4.380	0.696	1.00	0.00
ATOM 968	HG	CYS	A	64	-4.287	3.030	1.845	1.00	0.00
ATOM 969	N	GLN	A	65	-5.288	5.709	-1.492	1.00	0.00
ATOM 970	CA	GLN	A	65	-6.637	5.870	-2.023	1.00	0.00
ATOM 971	C	GLN	A	65	-7.058	4.640	-2.821	1.00	0.00
ATOM 972	O	GLN	A	65	-6.964	4.622	-4.048	1.00	0.00



ATOM 973	CB	GLN A	65	-6.714	7.116	-2.907	1.00	0.00
ATOM 974	CG	GLN A	65	-8.128	7.643	-3.093	1.00	0.00
ATOM 975	CD	GLN A	65	-8.163	8.977	-3.812	1.00	0.00
ATOM 976	OE1	GLN A	65	-7.577	9.958	-3.353	1.00	0.00
ATOM 977	NE2	GLN A	65	-8.852	9.021	-4.945	1.00	0.00
ATOM 978	H	GLN A	65	-4.638	5.172	-1.990	1.00	0.00
ATOM 979	HA	GLN A	65	-7.309	5.990	-1.188	1.00	0.00
ATOM 980	1HB	GLN A	65	-6.117	7.898	-2.460	1.00	0.00
ATOM 981	2HB	GLN A	65	-6.310	6.878	-3.880	1.00	0.00
ATOM 982	1HG	GLN A	65	-8.692	6.926	-3.670	1.00	0.00
ATOM 983	2HG	GLN A	65	-8.584	7.761	-2.121	1.00	0.00
ATOM 984	1HE2	GLN A	65	-9.294	8.201	-5.250	1.00	0.00
ATOM 985	2HE2	GLN A	65	-8.892	9.871	-5.430	1.00	0.00
ATOM 986	N	VAL A	66	-7.521	3.614	-2.115	1.00	0.00
ATOM 987	CA	VAL A	66	-7.957	2.380	-2.758	1.00	0.00
ATOM 988	C	VAL A	66	-9.159	2.630	-3.665	1.00	0.00
ATOM 989	O	VAL A	66	-10.300	2.677	-3.205	1.00	0.00
ATOM 990	CB	VAL A	66	-8.317	1.301	-1.716	1.00	0.00
ATOM 991	CG1	VAL A	66	-9.428	1.787	-0.800	1.00	0.00
ATOM 992	CG2	VAL A	66	-8.711	0.000	-2.403	1.00	0.00
ATOM 993	H	VAL A	66	-7.571	3.687	-1.140	1.00	0.00
ATOM 994	HA	VAL A	66	-7.138	2.011	-3.358	1.00	0.00
ATOM 995	HB	VAL A	66	-7.442	1.110	-1.111	1.00	0.00
ATOM 996	1HG1	VAL A	66	-10.371	1.370	-1.124	1.00	0.00
ATOM 997	2HG1	VAL A	66	-9.481	2.865	-0.839	1.00	0.00
ATOM 998	3HG1	VAL A	66	-9.225	1.473	0.213	1.00	0.00
ATOM 999	1HG2	VAL A	66	-9.788	-0.086	-2.421	1.00	0.00

ATOM 1000	2HG2	VAL	A	66	-8.292	-0.835	-1.860	1.00	0.00
ATOM 1001	3HG2	VAL	A	66	-8.333	-0.002	-3.414	1.00	0.00
ATOM 1002	N	LEU	A	67	-8.895	2.791	-4.958	1.00	0.00
ATOM 1003	CA	LEU	A	67	-9.954	3.037	-5.930	1.00	0.00
ATOM 1004	C	LEU	A	67	-10.945	1.878	-5.960	1.00	0.00
ATOM 1005	O	LEU	A	67	-12.117	2.040	-5.621	1.00	0.00
ATOM 1006	CB	LEU	A	67	-9.357	3.251	-7.322	1.00	0.00
ATOM 1007	CG	LEU	A	67	-8.226	4.276	-7.391	1.00	0.00
ATOM 1008	CD1	LEU	A	67	-7.758	4.459	-8.827	1.00	0.00
ATOM 1009	CD2	LEU	A	67	-8.674	5.604	-6.802	1.00	0.00
ATOM 1010	H	LEU	A	67	-7.965	2.743	-5.265	1.00	0.00
ATOM 1011	HA	LEU	A	67	-10.476	3.933	-5.630	1.00	0.00
ATOM 1012	1HB	LEU	A	67	-8.980	2.302	-7.678	1.00	0.00
ATOM 1013	2HB	LEU	A	67	-10.148	3.575	-7.983	1.00	0.00
ATOM 1014	HG	LEU	A	67	-7.387	3.918	-6.811	1.00	0.00
ATOM 1015	1HD1	LEU	A	67	-8.013	3.582	-9.403	1.00	0.00
ATOM 1016	2HD1	LEU	A	67	-6.687	4.601	-8.842	1.00	0.00
ATOM 1017	3HD1	LEU	A	67	-8.242	5.325	-9.256	1.00	0.00
ATOM 1018	1HD2	LEU	A	67	-8.195	6.414	-7.333	1.00	0.00
ATOM 1019	2HD2	LEU	A	67	-8.399	5.646	-5.758	1.00	0.00
ATOM 1020	3HD2	LEU	A	67	-9.746	5.696	-6.895	1.00	0.00
ATOM 1021	N	ALA	A	68	-10.465	0.708	-6.369	1.00	0.00
ATOM 1022	CA	ALA	A	68	-11.307	-0.480	-6.444	1.00	0.00
ATOM 1023	C	ALA	A	68	-10.489	-1.710	-6.820	1.00	0.00
ATOM 1024	O	ALA	A	68	-9.353	-1.595	-7.278	1.00	0.00
ATOM 1025	CB	ALA	A	68	-12.433	-0.265	-7.445	1.00	0.00
ATOM 1026	H	ALA	A	68	-9.522	0.641	-6.626	1.00	0.00

ATOM 1027	HA	ALA	A	68	-11.749	-0.636	-5.470	1.00	0.00
ATOM 1028	1HB	ALA	A	68	-12.104	-0.573	-8.427	1.00	0.00
ATOM 1029	2HB	ALA	A	68	-12.701	0.781	-7.467	1.00	0.00
ATOM 1030	3HB	ALA	A	68	-13.291	-0.851	-7.153	1.00	0.00
ATOM 1031	N	PHE	A	69	-11.075	-2.887	-6.622	1.00	0.00
ATOM 1032	CA	PHE	A	69	-10.400	-4.138	-6.941	1.00	0.00
ATOM 1033	C	PHE	A	69	-10.599	-4.506	-8.407	1.00	0.00
ATOM 1034	O	PHE	A	69	-11.411	-3.899	-9.105	1.00	0.00
ATOM 1035	CB	PHE	A	69	-10.919	-5.264	-6.045	1.00	0.00
ATOM 1036	CG	PHE	A	69	-10.784	-4.974	-4.578	1.00	0.00
ATOM 1037	CD1	PHE	A	69	-9.534	-4.892	-3.985	1.00	0.00
ATOM 1038	CD2	PHE	A	69	-11.908	-4.782	-3.790	1.00	0.00
ATOM 1039	CE1	PHE	A	69	-9.408	-4.623	-2.636	1.00	0.00
ATOM 1040	CE2	PHE	A	69	-11.788	-4.514	-2.440	1.00	0.00
ATOM 1041	CZ	PHE	A	69	-10.535	-4.434	-1.862	1.00	0.00
ATOM 1042	H	PHE	A	69	-11.982	-2.912	-6.254	1.00	0.00
ATOM 1043	HA	PHE	A	69	-9.344	-4.003	-6.756	1.00	0.00
ATOM 1044	1HB	PHE	A	69	-11.964	-5.429	-6.256	1.00	0.00
ATOM 1045	2HB	PHE	A	69	-10.367	-6.168	-6.258	1.00	0.00
ATOM 1046	HD1	PHE	A	69	-8.651	-5.038	-4.591	1.00	0.00
ATOM 1047	HD2	PHE	A	69	-12.888	-4.844	-4.241	1.00	0.00
ATOM 1048	HE1	PHE	A	69	-8.427	-4.562	-2.186	1.00	0.00
ATOM 1049	HE2	PHE	A	69	-12.672	-4.367	-1.837	1.00	0.00
ATOM 1050	HZ	PHE	A	69	-10.439	-4.225	-0.806	1.00	0.00
ATOM 1051	N	ARG	A	70	-9.851	-5.503	-8.869	1.00	0.00
ATOM 1052	CA	ARG	A	70	-9.945	-5.950	-10.254	1.00	0.00
ATOM 1053	C	ARG	A	70	-9.978	-7.473	-10.334	1.00	0.00

ATOM	1054	O	ARG	A	70	-9.075	-8.150	-9.842	1.00	0.00
ATOM	1055	CB	ARG	A	70	-8.767	-5.411	-11.067	1.00	0.00
ATOM	1056	CG	ARG	A	70	-8.739	-3.894	-11.165	1.00	0.00
ATOM	1057	CD	ARG	A	70	-9.575	-3.397	-12.333	1.00	0.00
ATOM	1058	NE	ARG	A	70	-9.226	-4.070	-13.581	1.00	0.00
ATOM	1059	CZ	ARG	A	70	-8.093	-3.858	-14.248	1.00	0.00
ATOM	1060	NH1	ARG	A	70	-7.199	-2.991	-13.789	1.00	0.00
ATOM	1061	NH2	ARG	A	70	-7.855	-4.514	-15.375	1.00	0.00
ATOM	1062	H	ARG	A	70	-9.220	-5.947	-8.265	1.00	0.00
ATOM	1063	HA	ARG	A	70	-10.864	-5.561	-10.667	1.00	0.00
ATOM	1064	1HB	ARG	A	70	-7.847	-5.736	-10.604	1.00	0.00
ATOM	1065	2HB	ARG	A	70	-8.819	-5.814	-12.067	1.00	0.00
ATOM	1066	1HG	ARG	A	70	-9.134	-3.476	-10.251	1.00	0.00
ATOM	1067	2HG	ARG	A	70	-7.718	-3.570	-11.300	1.00	0.00
ATOM	1068	1HD	ARG	A	70	-10.617	-3.578	-12.117	1.00	0.00
ATOM	1069	2HD	ARG	A	70	-9.412	-2.335	-12.450	1.00	0.00
ATOM	1070	HE	ARG	A	70	-9.870	-4.716	-13.943	1.00	0.00
ATOM	1071	1HH1	ARG	A	70	-7.373	-2.493	-12.941	1.00	0.00
ATOM	1072	2HH1	ARG	A	70	-6.349	-2.836	-14.294	1.00	0.00
ATOM	1073	1HH2	ARG	A	70	-8.524	-5.169	-15.724	1.00	0.00
ATOM	1074	2HH2	ARG	A	70	-7.003	-4.354	-15.875	1.00	0.00
ATOM	1075	N	SER	A	71	-11.025	-8.005	-10.955	1.00	0.00
ATOM	1076	CA	SER	A	71	-11.178	-9.448	-11.099	1.00	0.00
ATOM	1077	C	SER	A	71	-9.995	-10.050	-11.854	1.00	0.00
ATOM	1078	O	SER	A	71	-9.116	-9.331	-12.328	1.00	0.00
ATOM	1079	CB	SER	A	71	-12.483	-9.767	-11.829	1.00	0.00
ATOM	1080	OG	SER	A	71	-12.307	-9.741	-13.235	1.00	0.00

ATOM 1081	H	SER A	71	-11.712	-7.415	-11.326	1.00	0.00
ATOM 1082	HA	SER A	71	-11.214	-9.877	-10.110	1.00	0.00
ATOM 1083	1HB	SER A	71	-12.822	-10.750	-11.540	1.00	0.00
ATOM 1084	2HB	SER A	71	-13.232	-9.036	-11.559	1.00	0.00
ATOM 1085	HG	SER A	71	-11.955	-8.888	-13.498	1.00	0.00
ATOM 1086	N	VAL A	72	-9.982	-11.375	-11.960	1.00	0.00
ATOM 1087	CA	VAL A	72	-8.909	-12.076	-12.655	1.00	0.00
ATOM 1088	C	VAL A	72	-9.461	-13.192	-13.535	1.00	0.00
ATOM 1089	O	VAL A	72	-10.514	-13.761	-13.244	1.00	0.00
ATOM 1090	CB	VAL A	72	-7.892	-12.674	-11.665	1.00	0.00
ATOM 1091	CG1	VAL A	72	-6.987	-11.588	-11.104	1.00	0.00
ATOM 1092	CG2	VAL A	72	-8.608	-13.413	-10.544	1.00	0.00
ATOM 1093	H	VAL A	72	-10.710	-11.894	-11.560	1.00	0.00
ATOM 1094	HA	VAL A	72	-8.394	-11.360	-13.280	1.00	0.00
ATOM 1095	HB	VAL A	72	-7.276	-13.384	-12.198	1.00	0.00
ATOM 1096	1HG1	VAL A	72	-7.500	-10.638	-11.142	1.00	0.00
ATOM 1097	2HG1	VAL A	72	-6.084	-11.532	-11.694	1.00	0.00
ATOM 1098	3HG1	VAL A	72	-6.736	-11.822	-10.081	1.00	0.00
ATOM 1099	1HG2	VAL A	72	-9.125	-12.701	-9.918	1.00	0.00
ATOM 1100	2HG2	VAL A	72	-7.886	-13.956	-9.952	1.00	0.00
ATOM 1101	3HG2	VAL A	72	-9.322	-14.105	-10.967	1.00	0.00
ATOM 1102	N	SER A	73	-8.743	-13.502	-14.610	1.00	0.00
ATOM 1103	CA	SER A	73	-9.162	-14.552	-15.532	1.00	0.00
ATOM 1104	C	SER A	73	-8.193	-15.729	-15.494	1.00	0.00
ATOM 1105	O	SER A	73	-8.599	-16.885	-15.620	1.00	0.00
ATOM 1106	CB	SER A	73	-9.255	-14.001	-16.956	1.00	0.00
ATOM 1107	OG	SER A	73	-8.029	-13.414	-17.358	1.00	0.00

ATOM 1108	H	SER A	73	-7.913	-13.013	-14.787	1.00	0.00
ATOM 1109	HA	SER A	73	-10.138	-14.894	-15.225	1.00	0.00
ATOM 1110	1HB	SER A	73	-9.493	-14.805	-17.637	1.00	0.00
ATOM 1111	2HB	SER A	73	-10.031	-13.251	-17.000	1.00	0.00
ATOM 1112	N	ASN A	74	-6.910	-15.430	-15.317	1.00	0.00
ATOM 1113	CA	ASN A	74	-5.884	-16.464	-15.261	1.00	0.00
ATOM 1114	C	ASN A	74	-6.161	-17.446	-14.128	1.00	0.00
ATOM 1115	O	ASN A	74	-6.132	-18.661	-14.324	1.00	0.00
ATOM 1116	CB	ASN A	74	-4.503	-15.832	-15.078	1.00	0.00
ATOM 1117	CG	ASN A	74	-4.011	-15.140	-16.334	1.00	0.00
ATOM 1118	OD1	ASN A	74	-4.743	-14.375	-16.961	1.00	0.00
ATOM 1119	ND2	ASN A	74	-2.765	-15.407	-16.707	1.00	0.00
ATOM 1120	H	ASN A	74	-6.647	-14.490	-15.223	1.00	0.00
ATOM 1121	HA	ASN A	74	-5.902	-17.000	-16.199	1.00	0.00
ATOM 1122	1HB	ASN A	74	-4.550	-15.103	-14.282	1.00	0.00
ATOM 1123	2HB	ASN A	74	-3.793	-16.603	-14.811	1.00	0.00
ATOM 1124	1HD2	ASN A	74	-2.240	-16.027	-16.158	1.00	0.00
ATOM 1125	2HD2	ASN A	74	-2.421	-14.973	-17.515	1.00	0.00
ATOM 1126	N	ASN A	75	-6.431	-16.911	-12.942	1.00	0.00
ATOM 1127	CA	ASN A	75	-6.716	-17.740	-11.776	1.00	0.00
ATOM 1128	C	ASN A	75	-7.887	-17.174	-10.980	1.00	0.00
ATOM 1129	O	ASN A	75	-7.747	-16.173	-10.277	1.00	0.00
ATOM 1130	CB	ASN A	75	-5.478	-17.843	-10.883	1.00	0.00
ATOM 1131	CG	ASN A	75	-5.449	-19.130	-10.082	1.00	0.00
ATOM 1132	OD1	ASN A	75	-5.041	-20.178	-10.583	1.00	0.00
ATOM 1133	ND2	ASN A	75	-5.883	-19.056	-8.828	1.00	0.00
ATOM 1134	H	ASN A	75	-6.440	-15.935	-12.848	1.00	0.00

ATOM	1135	HA	ASN	A	75	-6.978	-18.727	-12.128	1.00	0.00
ATOM	1136	1HB	ASN	A	75	-4.592	-17.805	-11.498	1.00	0.00
ATOM	1137	2HB	ASN	A	75	-5.469	-17.011	-10.194	1.00	0.00
ATOM	1138	1HD2	ASN	A	75	-6.193	-18.188	-8.496	1.00	0.00
ATOM	1139	2HD2	ASN	A	75	-5.876	-19.873	-8.288	1.00	0.00
ATOM	1140	N	ASN	A	76	-9.042	-17.820	-11.096	1.00	0.00
ATOM	1141	CA	ASN	A	76	-10.238	-17.381	-10.387	1.00	0.00
ATOM	1142	C	ASN	A	76	-10.044	-17.480	-8.878	1.00	0.00
ATOM	1143	O	ASN	A	76	-10.462	-18.453	-8.250	1.00	0.00
ATOM	1144	CB	ASN	A	76	-11.445	-18.219	-10.815	1.00	0.00
ATOM	1145	CG	ASN	A	76	-12.232	-17.567	-11.935	1.00	0.00
ATOM	1146	OD1	ASN	A	76	-12.488	-18.184	-12.969	1.00	0.00
ATOM	1147	ND2	ASN	A	76	-12.620	-16.314	-11.735	1.00	0.00
ATOM	1148	H	ASN	A	76	-9.091	-18.612	-11.673	1.00	0.00
ATOM	1149	HA	ASN	A	76	-10.418	-16.349	-10.649	1.00	0.00
ATOM	1150	1HB	ASN	A	76	-11.103	-19.185	-11.155	1.00	0.00
ATOM	1151	2HB	ASN	A	76	-12.102	-18.352	-9.967	1.00	0.00
ATOM	1152	1HD2	ASN	A	76	-12.380	-15.885	-10.887	1.00	0.00
ATOM	1153	2HD2	ASN	A	76	-13.131	-15.868	-12.442	1.00	0.00
ATOM	1154	N	ASN	A	77	-9.406	-16.466	-8.301	1.00	0.00
ATOM	1155	CA	ASN	A	77	-9.157	-16.437	-6.865	1.00	0.00
ATOM	1156	C	ASN	A	77	-8.467	-15.139	-6.459	1.00	0.00
ATOM	1157	O	ASN	A	77	-8.984	-14.380	-5.638	1.00	0.00
ATOM	1158	CB	ASN	A	77	-8.299	-17.635	-6.450	1.00	0.00
ATOM	1159	CG	ASN	A	77	-8.569	-18.074	-5.025	1.00	0.00
ATOM	1160	OD1	ASN	A	77	-7.660	-18.132	-4.197	1.00	0.00
ATOM	1161	ND2	ASN	A	77	-9.826	-18.388	-4.731	1.00	0.00

ATOM	1162	H	ASN	A	77	-9.097	-15.719	-8.855	1.00	0.00
ATOM	1163	HA	ASN	A	77	-10.110	-16.498	-6.361	1.00	0.00
ATOM	1164	1HB	ASN	A	77	-8.508	-18.465	-7.109	1.00	0.00
ATOM	1165	2HB	ASN	A	77	-7.255	-17.369	-6.534	1.00	0.00
ATOM	1166	1HD2	ASN	A	77	-10.498	-18.319	-5.440	1.00	0.00
ATOM	1167	2HD2	ASN	A	77	-10.029	-18.675	-3.817	1.00	0.00
ATOM	1168	N	HIS	A	78	-7.299	-14.888	-7.040	1.00	0.00
ATOM	1169	CA	HIS	A	78	-6.538	-13.680	-6.739	1.00	0.00
ATOM	1170	C	HIS	A	78	-7.358	-12.430	-7.044	1.00	0.00
ATOM	1171	O	HIS	A	78	-8.313	-12.476	-7.820	1.00	0.00
ATOM	1172	CB	HIS	A	78	-5.236	-13.660	-7.542	1.00	0.00
ATOM	1173	CG	HIS	A	78	-4.349	-14.834	-7.273	1.00	0.00
ATOM	1174	ND1	HIS	A	78	-3.317	-15.205	-8.110	1.00	0.00
ATOM	1175	CD2	HIS	A	78	-4.341	-15.725	-6.253	1.00	0.00
ATOM	1176	CE1	HIS	A	78	-2.714	-16.273	-7.617	1.00	0.00
ATOM	1177	NE2	HIS	A	78	-3.315	-16.607	-6.491	1.00	0.00
ATOM	1178	H	HIS	A	78	-6.939	-15.531	-7.687	1.00	0.00
ATOM	1179	HA	HIS	A	78	-6.301	-13.692	-5.686	1.00	0.00
ATOM	1180	1HB	HIS	A	78	-5.471	-13.654	-8.596	1.00	0.00
ATOM	1181	2HB	HIS	A	78	-4.686	-12.763	-7.297	1.00	0.00
ATOM	1182	HD1	HIS	A	78	-3.064	-14.753	-8.943	1.00	0.00
ATOM	1183	HD2	HIS	A	78	-5.015	-15.739	-5.409	1.00	0.00
ATOM	1184	HE1	HIS	A	78	-1.872	-16.784	-8.061	1.00	0.00
ATOM	1185	HE2	HIS	A	78	-3.013	-17.308	-5.876	1.00	0.00
ATOM	1186	N	THR	A	79	-6.980	-11.315	-6.429	1.00	0.00
ATOM	1187	CA	THR	A	79	-7.681	-10.053	-6.635	1.00	0.00
ATOM	1188	C	THR	A	79	-6.696	-8.915	-6.887	1.00	0.00



ATOM	1189	O	THR	A	79	-5.727	-8.743	-6.145	1.00	0.00
ATOM	1190	CB	THR	A	79	-8.553	-9.727	-5.422	1.00	0.00
ATOM	1191	OG1	THR	A	79	-9.442	-10.794	-5.143	1.00	0.00
ATOM	1192	CG2	THR	A	79	-9.382	-8.473	-5.598	1.00	0.00
ATOM	1193	H	THR	A	79	-6.210	-11.341	-5.822	1.00	0.00
ATOM	1194	HA	THR	A	79	-8.314	-10.163	-7.503	1.00	0.00
ATOM	1195	HB	THR	A	79	-7.915	-9.583	-4.560	1.00	0.00
ATOM	1196	HG1	THR	A	79	-10.100	-10.853	-5.839	1.00	0.00
ATOM	1197	1HG2	THR	A	79	-10.264	-8.534	-4.981	1.00	0.00
ATOM	1198	2HG2	THR	A	79	-9.673	-8.377	-6.634	1.00	0.00
ATOM	1199	3HG2	THR	A	79	-8.798	-7.611	-5.308	1.00	0.00
ATOM	1200	N	GLY	A	80	-6.950	-8.140	-7.936	1.00	0.00
ATOM	1201	CA	GLY	A	80	-6.078	-7.028	-8.267	1.00	0.00
ATOM	1202	C	GLY	A	80	-6.459	-5.757	-7.535	1.00	0.00
ATOM	1203	O	GLY	A	80	-7.616	-5.335	-7.568	1.00	0.00
ATOM	1204	H	GLY	A	80	-7.737	-8.325	-8.490	1.00	0.00
ATOM	1205	1HA	GLY	A	80	-5.063	-7.291	-8.006	1.00	0.00
ATOM	1206	2HA	GLY	A	80	-6.131	-6.848	-9.330	1.00	0.00
ATOM	1207	N	VAL	A	81	-5.485	-5.143	-6.871	1.00	0.00
ATOM	1208	CA	VAL	A	81	-5.727	-3.913	-6.126	1.00	0.00
ATOM	1209	C	VAL	A	81	-5.412	-2.683	-6.972	1.00	0.00
ATOM	1210	O	VAL	A	81	-4.404	-2.641	-7.676	1.00	0.00
ATOM	1211	CB	VAL	A	81	-4.886	-3.861	-4.835	1.00	0.00
ATOM	1212	CG1	VAL	A	81	-5.214	-2.614	-4.026	1.00	0.00
ATOM	1213	CG2	VAL	A	81	-5.106	-5.118	-4.006	1.00	0.00
ATOM	1214	H	VAL	A	81	-4.583	-5.527	-6.879	1.00	0.00
ATOM	1215	HA	VAL	A	81	-6.771	-3.889	-5.850	1.00	0.00

ATOM	1216	HB	VAL	A	81	-3.842	-3.818	-5.111	1.00	0.00
ATOM	1217	1HG1	VAL	A	81	-6.239	-2.326	-4.208	1.00	0.00
ATOM	1218	2HG1	VAL	A	81	-4.557	-1.809	-4.318	1.00	0.00
ATOM	1219	3HG1	VAL	A	81	-5.082	-2.822	-2.974	1.00	0.00
ATOM	1220	1HG2	VAL	A	81	-5.990	-4.996	-3.398	1.00	0.00
ATOM	1221	2HG2	VAL	A	81	-4.251	-5.282	-3.367	1.00	0.00
ATOM	1222	3HG2	VAL	A	81	-5.233	-5.965	-4.663	1.00	0.00
ATOM	1223	N	ASP	A	82	-6.283	-1.682	-6.890	1.00	0.00
ATOM	1224	CA	ASP	A	82	-6.102	-0.444	-7.638	1.00	0.00
ATOM	1225	C	ASP	A	82	-6.154	0.757	-6.698	1.00	0.00
ATOM	1226	O	ASP	A	82	-7.179	1.429	-6.587	1.00	0.00
ATOM	1227	CB	ASP	A	82	-7.174	-0.315	-8.722	1.00	0.00
ATOM	1228	CG	ASP	A	82	-6.593	0.079	-10.067	1.00	0.00
ATOM	1229	OD1	ASP	A	82	-6.581	-0.772	-10.980	1.00	0.00
ATOM	1230	OD2	ASP	A	82	-6.149	1.239	-10.205	1.00	0.00
ATOM	1231	H	ASP	A	82	-7.064	-1.776	-6.306	1.00	0.00
ATOM	1232	HA	ASP	A	82	-5.129	-0.478	-8.106	1.00	0.00
ATOM	1233	1HB	ASP	A	82	-7.679	-1.263	-8.835	1.00	0.00
ATOM	1234	2HB	ASP	A	82	-7.892	0.436	-8.427	1.00	0.00
ATOM	1235	N	SER	A	83	-5.044	1.012	-6.014	1.00	0.00
ATOM	1236	CA	SER	A	83	-4.964	2.123	-5.074	1.00	0.00
ATOM	1237	C	SER	A	83	-4.129	3.265	-5.644	1.00	0.00
ATOM	1238	O	SER	A	83	-3.593	3.165	-6.748	1.00	0.00
ATOM	1239	CB	SER	A	83	-4.367	1.646	-3.748	1.00	0.00
ATOM	1240	OG	SER	A	83	-3.285	0.758	-3.965	1.00	0.00
ATOM	1241	H	SER	A	83	-4.261	0.436	-6.141	1.00	0.00
ATOM	1242	HA	SER	A	83	-5.967	2.479	-4.898	1.00	0.00

ATOM 1243	1HB	SER A	83	-4.011	2.496	-3.189	1.00	0.00
ATOM 1244	2HB	SER A	83	-5.128	1.133	-3.178	1.00	0.00
ATOM 1245	HG	SER A	83	-3.614	-0.067	-4.327	1.00	0.00
ATOM 1246	N	LEU A	84	-4.027	4.352	-4.885	1.00	0.00
ATOM 1247	CA	LEU A	84	-3.261	5.516	-5.317	1.00	0.00
ATOM 1248	C	LEU A	84	-2.319	5.990	-4.214	1.00	0.00
ATOM 1249	O	LEU A	84	-2.753	6.314	-3.109	1.00	0.00
ATOM 1250	CB	LEU A	84	-4.208	6.651	-5.714	1.00	0.00
ATOM 1251	CG	LEU A	84	-3.596	7.720	-6.622	1.00	0.00
ATOM 1252	CD1	LEU A	84	-2.465	8.443	-5.909	1.00	0.00
ATOM 1253	CD2	LEU A	84	-3.100	7.097	-7.918	1.00	0.00
ATOM 1254	H	LEU A	84	-4.479	4.372	-4.017	1.00	0.00
ATOM 1255	HA	LEU A	84	-2.677	5.229	-6.176	1.00	0.00
ATOM 1256	1HB	LEU A	84	-5.058	6.219	-6.223	1.00	0.00
ATOM 1257	2HB	LEU A	84	-4.556	7.133	-4.814	1.00	0.00
ATOM 1258	HG	LEU A	84	-4.354	8.449	-6.870	1.00	0.00
ATOM 1259	1HD1	LEU A	84	-2.622	8.396	-4.842	1.00	0.00
ATOM 1260	2HD1	LEU A	84	-2.443	9.477	-6.224	1.00	0.00
ATOM 1261	3HD1	LEU A	84	-1.525	7.973	-6.155	1.00	0.00
ATOM 1262	1HD2	LEU A	84	-3.614	6.162	-8.088	1.00	0.00
ATOM 1263	2HD2	LEU A	84	-2.038	6.917	-7.848	1.00	0.00
ATOM 1264	3HD2	LEU A	84	-3.298	7.770	-8.740	1.00	0.00
ATOM 1265	N	CYS A	85	-1.027	6.035	-4.526	1.00	0.00
ATOM 1266	CA	CYS A	85	-0.024	6.477	-3.565	1.00	0.00
ATOM 1267	C	CYS A	85	0.059	8.000	-3.537	1.00	0.00
ATOM 1268	O	CYS A	85	0.980	8.592	-4.097	1.00	0.00
ATOM 1269	CB	CYS A	85	1.344	5.884	-3.912	1.00	0.00

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ATOM	1270	SG	CYS	A	85	1.635	4.242	-3.213	1.00	0.00
ATOM	1271	H	CYS	A	85	-0.743	5.769	-5.425	1.00	0.00
ATOM	1272	HA	CYS	A	85	-0.322	6.124	-2.589	1.00	0.00
ATOM	1273	1HB	CYS	A	85	1.432	5.804	-4.985	1.00	0.00
ATOM	1274	2HB	CYS	A	85	2.118	6.540	-3.541	1.00	0.00
ATOM	1275	HG	CYS	A	85	2.282	3.796	-3.764	1.00	0.00
ATOM	1276	N	ASN	A	86	-0.914	8.629	-2.884	1.00	0.00
ATOM	1277	CA	ASN	A	86	-0.955	10.084	-2.788	1.00	0.00
ATOM	1278	C	ASN	A	86	0.131	10.601	-1.850	1.00	0.00
ATOM	1279	O	ASN	A	86	0.503	9.932	-0.886	1.00	0.00
ATOM	1280	CB	ASN	A	86	-2.329	10.546	-2.299	1.00	0.00
ATOM	1281	CG	ASN	A	86	-3.368	10.538	-3.403	1.00	0.00
ATOM	1282	OD1	ASN	A	86	-3.179	11.151	-4.454	1.00	0.00
ATOM	1283	ND2	ASN	A	86	-4.474	9.841	-3.170	1.00	0.00
ATOM	1284	H	ASN	A	86	-1.624	8.102	-2.460	1.00	0.00
ATOM	1285	HA	ASN	A	86	-0.781	10.486	-3.775	1.00	0.00
ATOM	1286	1HB	ASN	A	86	-2.664	9.888	-1.510	1.00	0.00
ATOM	1287	2HB	ASN	A	86	-2.247	11.551	-1.913	1.00	0.00
ATOM	1288	1HD2	ASN	A	86	-4.557	9.377	-2.310	1.00	0.00
ATOM	1289	2HD2	ASN	A	86	-5.163	9.818	-3.867	1.00	0.00
ATOM	1290	N	PHE	A	87	0.635	11.797	-2.140	1.00	0.00
ATOM	1291	CA	PHE	A	87	1.679	12.406	-1.323	1.00	0.00
ATOM	1292	C	PHE	A	87	1.354	13.866	-1.023	1.00	0.00
ATOM	1293	O	PHE	A	87	0.478	14.459	-1.653	1.00	0.00
ATOM	1294	CB	PHE	A	87	3.032	12.307	-2.030	1.00	0.00
ATOM	1295	CG	PHE	A	87	3.748	11.013	-1.773	1.00	0.00
ATOM	1296	CD1	PHE	A	87	4.940	10.992	-1.067	1.00	0.00

ATOM	1297	CD2	PHE	A	87	3.228	9.815	-2.238	1.00	0.00
ATOM	1298	CE1	PHE	A	87	5.600	9.802	-0.828	1.00	0.00
ATOM	1299	CE2	PHE	A	87	3.884	8.622	-2.002	1.00	0.00
ATOM	1300	CZ	PHE	A	87	5.071	8.615	-1.297	1.00	0.00
ATOM	1301	H	PHE	A	87	0.297	12.281	-2.922	1.00	0.00
ATOM	1302	HA	PHE	A	87	1.729	11.862	-0.392	1.00	0.00
ATOM	1303	1HB	PHE	A	87	2.881	12.397	-3.095	1.00	0.00
ATOM	1304	2HB	PHE	A	87	3.666	13.113	-1.690	1.00	0.00
ATOM	1305	HD1	PHE	A	87	5.354	11.920	-0.700	1.00	0.00
ATOM	1306	HD2	PHE	A	87	2.301	9.819	-2.789	1.00	0.00
ATOM	1307	HE1	PHE	A	87	6.528	9.800	-0.277	1.00	0.00
ATOM	1308	HE2	PHE	A	87	3.467	7.695	-2.371	1.00	0.00
ATOM	1309	HZ	PHE	A	87	5.585	7.684	-1.111	1.00	0.00
ATOM	1310	N	SER	A	88	2.065	14.438	-0.057	1.00	0.00
ATOM	1311	CA	SER	A	88	1.854	15.828	0.326	1.00	0.00
ATOM	1312	C	SER	A	88	2.446	16.776	-0.714	1.00	0.00
ATOM	1313	O	SER	A	88	3.415	16.438	-1.393	1.00	0.00
ATOM	1314	CB	SER	A	88	2.477	16.100	1.698	1.00	0.00
ATOM	1315	OG	SER	A	88	1.605	16.863	2.514	1.00	0.00
ATOM	1316	H	SER	A	88	2.749	13.912	0.408	1.00	0.00
ATOM	1317	HA	SER	A	88	0.789	15.998	0.386	1.00	0.00
ATOM	1318	1HB	SER	A	88	2.679	15.161	2.191	1.00	0.00
ATOM	1319	2HB	SER	A	88	3.401	16.646	1.571	1.00	0.00
ATOM	1320	HG	SER	A	88	2.006	17.715	2.702	1.00	0.00
ATOM	1321	N	PRO	A	89	1.869	17.982	-0.852	1.00	0.00
ATOM	1322	CA	PRO	A	89	2.346	18.980	-1.816	1.00	0.00
ATOM	1323	C	PRO	A	89	3.734	19.508	-1.468	1.00	0.00

ATOM 1324	O	PRO A	89	4.452	20.011	-2.333	1.00	0.00
ATOM 1325	CB	PRO A	89	1.307	20.102	-1.719	1.00	0.00
ATOM 1326	CG	PRO A	89	0.699	19.943	-0.368	1.00	0.00
ATOM 1327	CD	PRO A	89	0.710	18.468	-0.082	1.00	0.00
ATOM 1328	HA	PRO A	89	2.357	18.584	-2.821	1.00	0.00
ATOM 1329	1HB	PRO A	89	1.798	21.059	-1.822	1.00	0.00
ATOM 1330	2HB	PRO A	89	0.571	19.983	-2.498	1.00	0.00
ATOM 1331	1HG	PRO A	89	1.290	20.472	0.365	1.00	0.00
ATOM 1332	2HG	PRO A	89	-0.314	20.316	-0.375	1.00	0.00
ATOM 1333	1HD	PRO A	89	0.846	18.290	0.975	1.00	0.00
ATOM 1334	2HD	PRO A	89	-0.204	18.008	-0.429	1.00	0.00
ATOM 1335	N	LEU A	90	4.108	19.390	-0.197	1.00	0.00
ATOM 1336	CA	LEU A	90	5.411	19.857	0.263	1.00	0.00
ATOM 1337	C	LEU A	90	6.538	19.184	-0.516	1.00	0.00
ATOM 1338	O	LEU A	90	7.574	19.793	-0.780	1.00	0.00
ATOM 1339	CB	LEU A	90	5.576	19.582	1.758	1.00	0.00
ATOM 1340	CG	LEU A	90	4.934	20.619	2.681	1.00	0.00
ATOM 1341	CD1	LEU A	90	3.484	20.258	2.963	1.00	0.00
ATOM 1342	CD2	LEU A	90	5.720	20.733	3.980	1.00	0.00
ATOM 1343	H	LEU A	90	3.493	18.981	0.447	1.00	0.00
ATOM 1344	HA	LEU A	90	5.461	20.922	0.094	1.00	0.00
ATOM 1345	1HB	LEU A	90	5.139	18.617	1.976	1.00	0.00
ATOM 1346	2HB	LEU A	90	6.631	19.538	1.982	1.00	0.00
ATOM 1347	HG	LEU A	90	4.950	21.582	2.195	1.00	0.00
ATOM 1348	1HD1	LEU A	90	2.956	20.139	2.029	1.00	0.00
ATOM 1349	2HD1	LEU A	90	3.023	21.046	3.540	1.00	0.00
ATOM 1350	3HD1	LEU A	90	3.445	19.334	3.520	1.00	0.00

ATOM	1351	1HD2	LEU	A	90	6.444	21.529	3.894	1.00	0.00
ATOM	1352	2HD2	LEU	A	90	6.231	19.801	4.174	1.00	0.00
ATOM	1353	3HD2	LEU	A	90	5.041	20.947	4.793	1.00	0.00
ATOM	1354	N	ALA	A	91	6.328	17.923	-0.882	1.00	0.00
ATOM	1355	CA	ALA	A	91	7.325	17.168	-1.630	1.00	0.00
ATOM	1356	C	ALA	A	91	7.547	17.773	-3.012	1.00	0.00
ATOM	1357	O	ALA	A	91	6.697	18.501	-3.525	1.00	0.00
ATOM	1358	CB	ALA	A	91	6.901	15.711	-1.751	1.00	0.00
ATOM	1359	H	ALA	A	91	5.482	17.490	-0.642	1.00	0.00
ATOM	1360	HA	ALA	A	91	8.253	17.203	-1.079	1.00	0.00
ATOM	1361	1HB	ALA	A	91	6.486	15.537	-2.733	1.00	0.00
ATOM	1362	2HB	ALA	A	91	6.156	15.490	-1.001	1.00	0.00
ATOM	1363	3HB	ALA	A	91	7.761	15.074	-1.604	1.00	0.00
ATOM	1364	N	ARG	A	92	8.694	17.468	-3.610	1.00	0.00
ATOM	1365	CA	ARG	A	92	9.028	17.982	-4.932	1.00	0.00
ATOM	1366	C	ARG	A	92	10.200	17.212	-5.536	1.00	0.00
ATOM	1367	O	ARG	A	92	10.998	17.767	-6.290	1.00	0.00
ATOM	1368	CB	ARG	A	92	9.363	19.474	-4.852	1.00	0.00
ATOM	1369	CG	ARG	A	92	8.231	20.377	-5.313	1.00	0.00
ATOM	1370	CD	ARG	A	92	8.406	20.795	-6.765	1.00	0.00
ATOM	1371	NE	ARG	A	92	7.401	20.186	-7.634	1.00	0.00
ATOM	1372	CZ	ARG	A	92	7.170	20.575	-8.886	1.00	0.00
ATOM	1373	NH1	ARG	A	92	7.868	21.571	-9.419	1.00	0.00
ATOM	1374	NH2	ARG	A	92	6.239	19.968	-9.607	1.00	0.00
ATOM	1375	H	ARG	A	92	9.331	16.882	-3.149	1.00	0.00
ATOM	1376	HA	ARG	A	92	8.163	17.851	-5.565	1.00	0.00
ATOM	1377	1HB	ARG	A	92	9.598	19.722	-3.827	1.00	0.00

ATOM	1378	2HB	ARG	A	92	10.228	19.673	-5.468	1.00	0.00
ATOM	1379	1HG	ARG	A	92	7.296	19.847	-5.212	1.00	0.00
ATOM	1380	2HG	ARG	A	92	8.214	21.262	-4.693	1.00	0.00
ATOM	1381	1HD	ARG	A	92	8.318	21.871	-6.830	1.00	0.00
ATOM	1382	2HD	ARG	A	92	9.387	20.495	-7.098	1.00	0.00
ATOM	1383	HE	ARG	A	92	6.872	19.449	-7.266	1.00	0.00
ATOM	1384	1HH1	ARG	A	92	8.572	22.034	-8.880	1.00	0.00
ATOM	1385	2HH1	ARG	A	92	7.690	21.858	-10.360	1.00	0.00
ATOM	1386	1HH2	ARG	A	92	5.710	19.217	-9.211	1.00	0.00
ATOM	1387	2HH2	ARG	A	92	6.065	20.259	-10.548	1.00	0.00
ATOM	1388	N	ARG	A	93	10.296	15.930	-5.198	1.00	0.00
ATOM	1389	CA	ARG	A	93	11.370	15.086	-5.708	1.00	0.00
ATOM	1390	C	ARG	A	93	11.099	13.615	-5.405	1.00	0.00
ATOM	1391	O	ARG	A	93	12.018	12.854	-5.100	1.00	0.00
ATOM	1392	CB	ARG	A	93	12.711	15.508	-5.102	1.00	0.00
ATOM	1393	CG	ARG	A	93	13.805	15.720	-6.135	1.00	0.00
ATOM	1394	CD	ARG	A	93	14.734	14.520	-6.219	1.00	0.00
ATOM	1395	NE	ARG	A	93	15.861	14.762	-7.118	1.00	0.00
ATOM	1396	CZ	ARG	A	93	16.985	14.048	-7.108	1.00	0.00
ATOM	1397	NH1	ARG	A	93	17.135	13.046	-6.249	1.00	0.00
ATOM	1398	NH2	ARG	A	93	17.960	14.335	-7.958	1.00	0.00
ATOM	1399	H	ARG	A	93	9.629	15.542	-4.593	1.00	0.00
ATOM	1400	HA	ARG	A	93	11.414	15.216	-6.779	1.00	0.00
ATOM	1401	1HB	ARG	A	93	12.572	16.433	-4.561	1.00	0.00
ATOM	1402	2HB	ARG	A	93	13.040	14.745	-4.411	1.00	0.00
ATOM	1403	1HG	ARG	A	93	13.349	15.878	-7.100	1.00	0.00
ATOM	1404	2HG	ARG	A	93	14.382	16.592	-5.860	1.00	0.00



ATOM	1405	1HD	ARG	A	93	15.114	14.304	-5.231	1.00	0.00
ATOM	1406	2HD	ARG	A	93	14.173	13.671	-6.582	1.00	0.00
ATOM	1407	HE	ARG	A	93	15.776	15.495	-7.762	1.00	0.00
ATOM	1408	1HH1	ARG	A	93	16.404	12.824	-5.605	1.00	0.00
ATOM	1409	2HH1	ARG	A	93	17.981	12.514	-6.246	1.00	0.00
ATOM	1410	1HH2	ARG	A	93	17.851	15.087	-8.608	1.00	0.00
ATOM	1411	2HH2	ARG	A	93	18.805	13.799	-7.951	1.00	0.00
ATOM	1412	N	VAL	A	94	9.833	13.220	-5.490	1.00	0.00
ATOM	1413	CA	VAL	A	94	9.442	11.840	-5.227	1.00	0.00
ATOM	1414	C	VAL	A	94	9.495	11.003	-6.499	1.00	0.00
ATOM	1415	O	VAL	A	94	9.169	11.484	-7.585	1.00	0.00
ATOM	1416	CB	VAL	A	94	8.024	11.759	-4.631	1.00	0.00
ATOM	1417	CG1	VAL	A	94	7.731	10.349	-4.140	1.00	0.00
ATOM	1418	CG2	VAL	A	94	7.858	12.768	-3.505	1.00	0.00
ATOM	1419	H	VAL	A	94	9.144	13.872	-5.738	1.00	0.00
ATOM	1420	HA	VAL	A	94	10.137	11.429	-4.508	1.00	0.00
ATOM	1421	HB	VAL	A	94	7.314	11.999	-5.409	1.00	0.00
ATOM	1422	1HG1	VAL	A	94	8.428	10.088	-3.358	1.00	0.00
ATOM	1423	2HG1	VAL	A	94	7.834	9.654	-4.960	1.00	0.00
ATOM	1424	3HG1	VAL	A	94	6.724	10.305	-3.755	1.00	0.00
ATOM	1425	1HG2	VAL	A	94	8.232	13.730	-3.825	1.00	0.00
ATOM	1426	2HG2	VAL	A	94	8.412	12.437	-2.640	1.00	0.00
ATOM	1427	3HG2	VAL	A	94	6.811	12.855	-3.252	1.00	0.00
ATOM	1428	N	ASP	A	95	9.907	9.747	-6.359	1.00	0.00
ATOM	1429	CA	ASP	A	95	10.001	8.842	-7.499	1.00	0.00
ATOM	1430	C	ASP	A	95	9.145	7.599	-7.279	1.00	0.00
ATOM	1431	O	ASP	A	95	8.908	7.189	-6.143	1.00	0.00

ATOM 1432	CB	ASP	A	95	11.458	8.437	-7.735	1.00	0.00
ATOM 1433	CG	ASP	A	95	12.221	9.467	-8.545	1.00	0.00
ATOM 1434	OD1	ASP	A	95	12.821	10.376	-7.935	1.00	0.00
ATOM 1435	OD2	ASP	A	95	12.218	9.363	-9.790	1.00	0.00
ATOM 1436	H	ASP	A	95	10.153	9.422	-5.469	1.00	0.00
ATOM 1437	HA	ASP	A	95	9.638	9.366	-8.370	1.00	0.00
ATOM 1438	1HB	ASP	A	95	11.951	8.319	-6.782	1.00	0.00
ATOM 1439	2HB	ASP	A	95	11.481	7.497	-8.266	1.00	0.00
ATOM 1440	N	ARG	A	96	8.684	7.004	-8.375	1.00	0.00
ATOM 1441	CA	ARG	A	96	7.853	5.807	-8.302	1.00	0.00
ATOM 1442	C	ARG	A	96	8.595	4.672	-7.604	1.00	0.00
ATOM 1443	O	ARG	A	96	7.986	3.841	-6.931	1.00	0.00
ATOM 1444	CB	ARG	A	96	7.430	5.369	-9.705	1.00	0.00
ATOM 1445	CG	ARG	A	96	8.601	5.117	-10.643	1.00	0.00
ATOM 1446	CD	ARG	A	96	8.185	5.251	-12.099	1.00	0.00
ATOM 1447	NE	ARG	A	96	9.313	5.603	-12.958	1.00	0.00
ATOM 1448	CZ	ARG	A	96	10.225	4.731	-13.380	1.00	0.00
ATOM 1449	NH1	ARG	A	96	10.147	3.455	-13.025	1.00	0.00
ATOM 1450	NH2	ARG	A	96	11.218	5.135	-14.161	1.00	0.00
ATOM 1451	H	ARG	A	96	8.907	7.378	-9.253	1.00	0.00
ATOM 1452	HA	ARG	A	96	6.971	6.051	-7.730	1.00	0.00
ATOM 1453	1HB	ARG	A	96	6.857	4.457	-9.628	1.00	0.00
ATOM 1454	2HB	ARG	A	96	6.809	6.139	-10.139	1.00	0.00
ATOM 1455	1HG	ARG	A	96	9.378	5.835	-10.433	1.00	0.00
ATOM 1456	2HG	ARG	A	96	8.975	4.117	-10.474	1.00	0.00
ATOM 1457	1HD	ARG	A	96	7.773	4.309	-12.430	1.00	0.00
ATOM 1458	2HD	ARG	A	96	7.432	6.020	-12.176	1.00	0.00

ATOM	1459	HE	ARG	A	96	9.395	6.540	-13.236	1.00	0.00
ATOM	1460	1HH1	ARG	A	96	9.400	3.143	-12.437	1.00	0.00
ATOM	1461	2HH1	ARG	A	96	10.835	2.803	-13.345	1.00	0.00
ATOM	1462	1HH2	ARG	A	96	11.281	6.095	-14.431	1.00	0.00
ATOM	1463	2HH2	ARG	A	96	11.904	4.479	-14.478	1.00	0.00
ATOM	1464	N	VAL	A	97	9.913	4.644	-7.768	1.00	0.00
ATOM	1465	CA	VAL	A	97	10.738	3.612	-7.153	1.00	0.00
ATOM	1466	C	VAL	A	97	10.824	3.807	-5.643	1.00	0.00
ATOM	1467	O	VAL	A	97	10.915	2.841	-4.886	1.00	0.00
ATOM	1468	CB	VAL	A	97	12.162	3.604	-7.741	1.00	0.00
ATOM	1469	CG1	VAL	A	97	12.959	2.425	-7.202	1.00	0.00
ATOM	1470	CG2	VAL	A	97	12.114	3.573	-9.262	1.00	0.00
ATOM	1471	H	VAL	A	97	10.341	5.335	-8.315	1.00	0.00
ATOM	1472	HA	VAL	A	97	10.281	2.654	-7.357	1.00	0.00
ATOM	1473	HB	VAL	A	97	12.660	4.514	-7.438	1.00	0.00
ATOM	1474	1HG1	VAL	A	97	13.628	2.062	-7.968	1.00	0.00
ATOM	1475	2HG1	VAL	A	97	12.280	1.635	-6.912	1.00	0.00
ATOM	1476	3HG1	VAL	A	97	13.533	2.741	-6.343	1.00	0.00
ATOM	1477	1HG2	VAL	A	97	12.864	4.240	-9.660	1.00	0.00
ATOM	1478	2HG2	VAL	A	97	11.137	3.886	-9.598	1.00	0.00
ATOM	1479	3HG2	VAL	A	97	12.308	2.568	-9.607	1.00	0.00
ATOM	1480	N	ALA	A	98	10.794	5.065	-5.212	1.00	0.00
ATOM	1481	CA	ALA	A	98	10.867	5.387	-3.792	1.00	0.00
ATOM	1482	C	ALA	A	98	9.679	4.803	-3.035	1.00	0.00
ATOM	1483	O	ALA	A	98	9.838	4.234	-1.956	1.00	0.00
ATOM	1484	CB	ALA	A	98	10.929	6.894	-3.598	1.00	0.00
ATOM	1485	H	ALA	A	98	10.719	5.792	-5.864	1.00	0.00

ATOM 1486	HA	ALA A	98	11.777	4.959	-3.399	1.00	0.00
ATOM 1487	1HB	ALA A	98	11.484	7.118	-2.698	1.00	0.00
ATOM 1488	2HB	ALA A	98	9.928	7.287	-3.511	1.00	0.00
ATOM 1489	3HB	ALA A	98	11.422	7.346	-4.445	1.00	0.00
ATOM 1490	N	ILE A	99	8.490	4.946	-3.611	1.00	0.00
ATOM 1491	CA	ILE A	99	7.275	4.428	-2.992	1.00	0.00
ATOM 1492	C	ILE A	99	7.194	2.913	-3.146	1.00	0.00
ATOM 1493	O	ILE A	99	6.627	2.221	-2.300	1.00	0.00
ATOM 1494	CB	ILE A	99	6.009	5.064	-3.601	1.00	0.00
ATOM 1495	CG1	ILE A	99	6.194	6.574	-3.775	1.00	0.00
ATOM 1496	CG2	ILE A	99	4.799	4.773	-2.725	1.00	0.00
ATOM 1497	CD1	ILE A	99	5.010	7.257	-4.425	1.00	0.00
ATOM 1498	H	ILE A	99	8.429	5.406	-4.474	1.00	0.00
ATOM 1499	HA	ILE A	99	7.307	4.672	-1.940	1.00	0.00
ATOM 1500	HB	ILE A	99	5.836	4.616	-4.568	1.00	0.00
ATOM 1501	1HG1	ILE A	99	6.346	7.026	-2.806	1.00	0.00
ATOM 1502	2HG1	ILE A	99	7.061	6.756	-4.392	1.00	0.00
ATOM 1503	1HG2	ILE A	99	5.072	4.882	-1.686	1.00	0.00
ATOM 1504	2HG2	ILE A	99	4.459	3.764	-2.905	1.00	0.00
ATOM 1505	3HG2	ILE A	99	4.006	5.467	-2.964	1.00	0.00
ATOM 1506	1HD1	ILE A	99	4.094	6.822	-4.052	1.00	0.00
ATOM 1507	2HD1	ILE A	99	5.062	7.124	-5.495	1.00	0.00
ATOM 1508	3HD1	ILE A	99	5.030	8.311	-4.191	1.00	0.00
ATOM 1509	N	TYR A	100	7.766	2.408	-4.233	1.00	0.00
ATOM 1510	CA	TYR A	100	7.765	0.976	-4.507	1.00	0.00
ATOM 1511	C	TYR A	100	8.748	0.248	-3.598	1.00	0.00
ATOM 1512	O	TYR A	100	8.473	-0.854	-3.125	1.00	0.00

ATOM	1513	CB	TYR A 100	8.129	0.722	-5.971	1.00	0.00
ATOM	1514	CG	TYR A 100	7.914	-0.708	-6.413	1.00	0.00
ATOM	1515	CD1	TYR A 100	8.987	-1.580	-6.555	1.00	0.00
ATOM	1516	CD2	TYR A 100	6.639	-1.185	-6.690	1.00	0.00
ATOM	1517	CE1	TYR A 100	8.795	-2.886	-6.961	1.00	0.00
ATOM	1518	CE2	TYR A 100	6.439	-2.492	-7.096	1.00	0.00
ATOM	1519	CZ	TYR A 100	7.520	-3.337	-7.230	1.00	0.00
ATOM	1520	OH	TYR A 100	7.325	-4.638	-7.634	1.00	0.00
ATOM	1521	H	TYR A 100	8.201	3.013	-4.869	1.00	0.00
ATOM	1522	HA	TYR A 100	6.770	0.601	-4.321	1.00	0.00
ATOM	1523	1HB	TYR A 100	7.526	1.358	-6.599	1.00	0.00
ATOM	1524	2HB	TYR A 100	9.172	0.962	-6.120	1.00	0.00
ATOM	1525	HD1	TYR A 100	9.984	-1.223	-6.343	1.00	0.00
ATOM	1526	HD2	TYR A 100	5.795	-0.519	-6.585	1.00	0.00
ATOM	1527	HE1	TYR A 100	9.641	-3.549	-7.065	1.00	0.00
ATOM	1528	HE2	TYR A 100	5.440	-2.844	-7.307	1.00	0.00
ATOM	1529	HH	TYR A 100	6.819	-5.108	-6.968	1.00	0.00
ATOM	1530	N	GLU A 101	9.898	0.871	-3.364	1.00	0.00
ATOM	1531	CA	GLU A 101	10.929	0.284	-2.519	1.00	0.00
ATOM	1532	C	GLU A 101	10.524	0.318	-1.048	1.00	0.00
ATOM	1533	O	GLU A 101	10.632	-0.685	-0.342	1.00	0.00
ATOM	1534	CB	GLU A 101	12.252	1.025	-2.714	1.00	0.00
ATOM	1535	CG	GLU A 101	13.036	0.559	-3.930	1.00	0.00
ATOM	1536	CD	GLU A 101	14.534	0.610	-3.713	1.00	0.00
ATOM	1537	OE1	GLU A 101	15.148	1.644	-4.053	1.00	0.00
ATOM	1538	OE2	GLU A 101	15.095	-0.383	-3.203	1.00	0.00
ATOM	1539	H	GLU A 101	10.060	1.747	-3.775	1.00	0.00

ATOM	1540	HA	GLU A 101	11.056	-0.745	-2.820	1.00	0.00
ATOM	1541	1HB	GLU A 101	12.048	2.078	-2.826	1.00	0.00
ATOM	1542	2HB	GLU A 101	12.866	0.877	-1.839	1.00	0.00
ATOM	1543	1HG	GLU A 101	12.754	-0.460	-4.155	1.00	0.00
ATOM	1544	2HG	GLU A 101	12.785	1.193	-4.768	1.00	0.00
ATOM	1545	N	GLU A 102	10.061	1.477	-0.590	1.00	0.00
ATOM	1546	CA	GLU A 102	9.644	1.638	0.799	1.00	0.00
ATOM	1547	C	GLU A 102	8.534	0.653	1.157	1.00	0.00
ATOM	1548	O	GLU A 102	8.430	0.210	2.299	1.00	0.00
ATOM	1549	CB	GLU A 102	9.172	3.071	1.050	1.00	0.00
ATOM	1550	CG	GLU A 102	7.945	3.460	0.243	1.00	0.00
ATOM	1551	CD	GLU A 102	6.653	2.985	0.880	1.00	0.00
ATOM	1552	OE1	GLU A 102	5.730	2.600	0.132	1.00	0.00
ATOM	1553	OE2	GLU A 102	6.566	2.997	2.125	1.00	0.00
ATOM	1554	H	GLU A 102	10.000	2.242	-1.200	1.00	0.00
ATOM	1555	HA	GLU A 102	10.501	1.437	1.425	1.00	0.00
ATOM	1556	1HB	GLU A 102	8.936	3.181	2.099	1.00	0.00
ATOM	1557	2HB	GLU A 102	9.973	3.751	0.799	1.00	0.00
ATOM	1558	1HG	GLU A 102	7.912	4.536	0.158	1.00	0.00
ATOM	1559	2HG	GLU A 102	8.025	3.024	-0.742	1.00	0.00
ATOM	1560	N	PHE A 103	7.707	0.318	0.172	1.00	0.00
ATOM	1561	CA	PHE A 103	6.606	-0.615	0.385	1.00	0.00
ATOM	1562	C	PHE A 103	7.109	-2.055	0.432	1.00	0.00
ATOM	1563	O	PHE A 103	6.521	-2.906	1.098	1.00	0.00
ATOM	1564	CB	PHE A 103	5.561	-0.463	-0.722	1.00	0.00
ATOM	1565	CG	PHE A 103	4.343	-1.319	-0.519	1.00	0.00
ATOM	1566	CD1	PHE A 103	3.478	-1.076	0.536	1.00	0.00

ATOM 1567	CD2	PHE A 103	4.063	-2.364	-1.384	1.00	0.00
ATOM 1568	CE1	PHE A 103	2.356	-1.861	0.724	1.00	0.00
ATOM 1569	CE2	PHE A 103	2.943	-3.153	-1.200	1.00	0.00
ATOM 1570	CZ	PHE A 103	2.088	-2.901	-0.145	1.00	0.00
ATOM 1571	H	PHE A 103	7.841	0.705	-0.718	1.00	0.00
ATOM 1572	HA	PHE A 103	6.149	-0.375	1.334	1.00	0.00
ATOM 1573	1HB	PHE A 103	5.239	0.567	-0.765	1.00	0.00
ATOM 1574	2HB	PHE A 103	6.008	-0.736	-1.668	1.00	0.00
ATOM 1575	HD1	PHE A 103	3.686	-0.263	1.216	1.00	0.00
ATOM 1576	HD2	PHE A 103	4.730	-2.563	-2.210	1.00	0.00
ATOM 1577	HE1	PHE A 103	1.690	-1.662	1.551	1.00	0.00
ATOM 1578	HE2	PHE A 103	2.737	-3.965	-1.881	1.00	0.00
ATOM 1579	HZ	PHE A 103	1.213	-3.516	0.001	1.00	0.00
ATOM 1580	N	LEU A 104	8.198	-2.320	-0.283	1.00	0.00
ATOM 1581	CA	LEU A 104	8.779	-3.658	-0.326	1.00	0.00
ATOM 1582	C	LEU A 104	9.466	-4.004	0.993	1.00	0.00
ATOM 1583	O	LEU A 104	9.591	-5.175	1.348	1.00	0.00
ATOM 1584	CB	LEU A 104	9.783	-3.762	-1.474	1.00	0.00
ATOM 1585	CG	LEU A 104	9.163	-3.867	-2.869	1.00	0.00
ATOM 1586	CD1	LEU A 104	10.226	-3.681	-3.941	1.00	0.00
ATOM 1587	CD2	LEU A 104	8.459	-5.205	-3.038	1.00	0.00
ATOM 1588	H	LEU A 104	8.621	-1.599	-0.795	1.00	0.00
ATOM 1589	HA	LEU A 104	7.978	-4.361	-0.496	1.00	0.00
ATOM 1590	1HB	LEU A 104	10.418	-2.888	-1.450	1.00	0.00
ATOM 1591	2HB	LEU A 104	10.395	-4.635	-1.311	1.00	0.00
ATOM 1592	HG	LEU A 104	8.428	-3.085	-2.989	1.00	0.00
ATOM 1593	1HD1	LEU A 104	11.110	-3.246	-3.501	1.00	0.00

ATOM	1594	2HD1	LEU	A	104	9.849	-3.025	-4.712	1.00	0.00
ATOM	1595	3HD1	LEU	A	104	10.473	-4.639	-4.375	1.00	0.00
ATOM	1596	1HD2	LEU	A	104	8.225	-5.360	-4.081	1.00	0.00
ATOM	1597	2HD2	LEU	A	104	7.546	-5.208	-2.460	1.00	0.00
ATOM	1598	3HD2	LEU	A	104	9.106	-5.999	-2.693	1.00	0.00
ATOM	1599	N	ARG	A	105	9.917	-2.979	1.710	1.00	0.00
ATOM	1600	CA	ARG	A	105	10.599	-3.180	2.983	1.00	0.00
ATOM	1601	C	ARG	A	105	9.622	-3.604	4.077	1.00	0.00
ATOM	1602	O	ARG	A	105	9.983	-4.349	4.987	1.00	0.00
ATOM	1603	CB	ARG	A	105	11.324	-1.900	3.403	1.00	0.00
ATOM	1604	CG	ARG	A	105	12.121	-2.046	4.690	1.00	0.00
ATOM	1605	CD	ARG	A	105	13.586	-1.695	4.485	1.00	0.00
ATOM	1606	NE	ARG	A	105	14.225	-2.565	3.500	1.00	0.00
ATOM	1607	CZ	ARG	A	105	15.543	-2.693	3.368	1.00	0.00
ATOM	1608	NH1	ARG	A	105	16.366	-2.010	4.155	1.00	0.00
ATOM	1609	NH2	ARG	A	105	16.041	-3.507	2.448	1.00	0.00
ATOM	1610	H	ARG	A	105	9.794	-2.068	1.372	1.00	0.00
ATOM	1611	HA	ARG	A	105	11.329	-3.964	2.847	1.00	0.00
ATOM	1612	1HB	ARG	A	105	12.001	-1.608	2.614	1.00	0.00
ATOM	1613	2HB	ARG	A	105	10.593	-1.118	3.545	1.00	0.00
ATOM	1614	1HG	ARG	A	105	11.706	-1.387	5.437	1.00	0.00
ATOM	1615	2HG	ARG	A	105	12.050	-3.069	5.031	1.00	0.00
ATOM	1616	1HD	ARG	A	105	13.654	-0.672	4.143	1.00	0.00
ATOM	1617	2HD	ARG	A	105	14.102	-1.793	5.428	1.00	0.00
ATOM	1618	HE	ARG	A	105	13.641	-3.081	2.905	1.00	0.00
ATOM	1619	1HH1	ARG	A	105	15.996	-1.394	4.852	1.00	0.00
ATOM	1620	2HH1	ARG	A	105	17.355	-2.110	4.052	1.00	0.00



ATOM 1621	1HH2	ARG	A	105	15.426	-4.025	1.853	1.00	0.00
ATOM 1622	2HH2	ARG	A	105	17.032	-3.604	2.348	1.00	0.00
ATOM 1623	N	MET	A	106	8.387	-3.123	3.986	1.00	0.00
ATOM 1624	CA	MET	A	106	7.366	-3.452	4.974	1.00	0.00
ATOM 1625	C	MET	A	106	6.526	-4.648	4.534	1.00	0.00
ATOM 1626	O	MET	A	106	5.939	-5.344	5.363	1.00	0.00
ATOM 1627	CB	MET	A	106	6.459	-2.247	5.224	1.00	0.00
ATOM 1628	CG	MET	A	106	5.762	-2.284	6.574	1.00	0.00
ATOM 1629	SD	MET	A	106	6.512	-1.169	7.777	1.00	0.00
ATOM 1630	CE	MET	A	106	6.455	0.381	6.880	1.00	0.00
ATOM 1631	H	MET	A	106	8.158	-2.530	3.239	1.00	0.00
ATOM 1632	HA	MET	A	106	7.868	-3.705	5.895	1.00	0.00
ATOM 1633	1HB	MET	A	106	7.053	-1.346	5.173	1.00	0.00
ATOM 1634	2HB	MET	A	106	5.703	-2.213	4.454	1.00	0.00
ATOM 1635	1HG	MET	A	106	4.730	-2.003	6.439	1.00	0.00
ATOM 1636	2HG	MET	A	106	5.810	-3.292	6.961	1.00	0.00
ATOM 1637	1HE	MET	A	106	7.461	0.701	6.651	1.00	0.00
ATOM 1638	2HE	MET	A	106	5.969	1.130	7.488	1.00	0.00
ATOM 1639	3HE	MET	A	106	5.902	0.247	5.963	1.00	0.00
ATOM 1640	N	THR	A	107	6.468	-4.884	3.227	1.00	0.00
ATOM 1641	CA	THR	A	107	5.694	-5.997	2.689	1.00	0.00
ATOM 1642	C	THR	A	107	6.562	-7.240	2.498	1.00	0.00
ATOM 1643	O	THR	A	107	6.200	-8.149	1.752	1.00	0.00
ATOM 1644	CB	THR	A	107	5.055	-5.602	1.356	1.00	0.00
ATOM 1645	OG1	THR	A	107	6.044	-5.241	0.405	1.00	0.00
ATOM 1646	CG2	THR	A	107	4.092	-4.442	1.476	1.00	0.00
ATOM 1647	H	THR	A	107	6.953	-4.297	2.611	1.00	0.00

ATOM 1648	HA	THR A 107	4.912	-6.226	3.396	1.00	0.00
ATOM 1649	HB	THR A 107	4.506	-6.448	0.968	1.00	0.00
ATOM 1650	HG1	THR A 107	6.918	-5.373	0.779	1.00	0.00
ATOM 1651	1HG2	THR A 107	3.098	-4.769	1.206	1.00	0.00
ATOM 1652	2HG2	THR A 107	4.401	-3.646	0.814	1.00	0.00
ATOM 1653	3HG2	THR A 107	4.087	-4.082	2.494	1.00	0.00
ATOM 1654	N	HIS A 108	7.707	-7.277	3.176	1.00	0.00
ATOM 1655	CA	HIS A 108	8.619	-8.413	3.077	1.00	0.00
ATOM 1656	C	HIS A 108	8.957	-8.721	1.621	1.00	0.00
ATOM 1657	O	HIS A 108	8.560	-9.756	1.085	1.00	0.00
ATOM 1658	CB	HIS A 108	8.003	-9.645	3.745	1.00	0.00
ATOM 1659	CG	HIS A 108	8.434	-9.835	5.165	1.00	0.00
ATOM 1660	ND1	HIS A 108	7.954	-9.069	6.206	1.00	0.00
ATOM 1661	CD2	HIS A 108	9.305	-10.713	5.717	1.00	0.00
ATOM 1662	CE1	HIS A 108	8.512	-9.468	7.337	1.00	0.00
ATOM 1663	NE2	HIS A 108	9.335	-10.464	7.066	1.00	0.00
ATOM 1664	H	HIS A 108	7.944	-6.526	3.758	1.00	0.00
ATOM 1665	HA	HIS A 108	9.529	-8.152	3.597	1.00	0.00
ATOM 1666	1HB	HIS A 108	6.928	-9.551	3.733	1.00	0.00
ATOM 1667	2HB	HIS A 108	8.288	-10.528	3.188	1.00	0.00
ATOM 1668	HD1	HIS A 108	7.303	-8.342	6.129	1.00	0.00
ATOM 1669	HD2	HIS A 108	9.872	-11.470	5.192	1.00	0.00
ATOM 1670	HE1	HIS A 108	8.324	-9.050	8.314	1.00	0.00
ATOM 1671	HE2	HIS A 108	9.931	-10.896	7.713	1.00	0.00
ATOM 1672	N	ASN A 109	9.694	-7.816	0.985	1.00	0.00
ATOM 1673	CA	ASN A 109	10.084	-7.990	-0.409	1.00	0.00
ATOM 1674	C	ASN A 109	8.857	-8.065	-1.315	1.00	0.00

ATOM 1675	O	ASN A 109	8.892	-8.697	-2.371	1.00	0.00
ATOM 1676	CB	ASN A 109	10.930	-9.256	-0.569	1.00	0.00
ATOM 1677	CG	ASN A 109	12.418	-8.965	-0.535	1.00	0.00
ATOM 1678	OD1	ASN A 109	12.839	-7.811	-0.619	1.00	0.00
ATOM 1679	ND2	ASN A 109	13.223	-10.015	-0.412	1.00	0.00
ATOM 1680	H	ASN A 109	9.980	-7.010	1.465	1.00	0.00
ATOM 1681	HA	ASN A 109	10.677	-7.135	-0.697	1.00	0.00
ATOM 1682	1HB	ASN A 109	10.698	-9.940	0.234	1.00	0.00
ATOM 1683	2HB	ASN A 109	10.694	-9.723	-1.514	1.00	0.00
ATOM 1684	1HD2	ASN A 109	12.817	-10.905	-0.351	1.00	0.00
ATOM 1685	2HD2	ASN A 109	14.189	-9.855	-0.388	1.00	0.00
ATOM 1686	N	GLY A 110	7.777	-7.416	-0.895	1.00	0.00
ATOM 1687	CA	GLY A 110	6.555	-7.422	-1.680	1.00	0.00
ATOM 1688	C	GLY A 110	5.930	-8.800	-1.774	1.00	0.00
ATOM 1689	O	GLY A 110	5.445	-9.197	-2.834	1.00	0.00
ATOM 1690	H	GLY A 110	7.807	-6.929	-0.046	1.00	0.00
ATOM 1691	1HA	GLY A 110	5.846	-6.747	-1.227	1.00	0.00
ATOM 1692	2HA	GLY A 110	6.781	-7.073	-2.677	1.00	0.00
ATOM 1693	N	THR A 111	5.943	-9.532	-0.665	1.00	0.00
ATOM 1694	CA	THR A 111	5.374	-10.874	-0.630	1.00	0.00
ATOM 1695	C	THR A 111	4.226	-10.963	0.373	1.00	0.00
ATOM 1696	O	THR A 111	3.267	-11.706	0.165	1.00	0.00
ATOM 1697	CB	THR A 111	6.452	-11.899	-0.276	1.00	0.00
ATOM 1698	OG1	THR A 111	6.967	-11.658	1.022	1.00	0.00
ATOM 1699	CG2	THR A 111	7.618	-11.899	-1.240	1.00	0.00
ATOM 1700	H	THR A 111	6.345	-9.160	0.147	1.00	0.00
ATOM 1701	HA	THR A 111	4.992	-11.097	-1.615	1.00	0.00

ATOM 1702	HB	THR A 111	6.012	-12.886	-0.287	1.00	0.00
ATOM 1703	HG1	THR A 111	7.353	-12.466	1.369	1.00	0.00
ATOM 1704	1HG2	THR A 111	8.394	-11.247	-0.868	1.00	0.00
ATOM 1705	2HG2	THR A 111	7.286	-11.550	-2.207	1.00	0.00
ATOM 1706	3HG2	THR A 111	8.007	-12.903	-1.335	1.00	0.00
ATOM 1707	N	GLN A 112	4.329	-10.207	1.462	1.00	0.00
ATOM 1708	CA	GLN A 112	3.295	-10.212	2.490	1.00	0.00
ATOM 1709	C	GLN A 112	3.055	-8.809	3.037	1.00	0.00
ATOM 1710	O	GLN A 112	3.945	-8.201	3.630	1.00	0.00
ATOM 1711	CB	GLN A 112	3.686	-11.153	3.631	1.00	0.00
ATOM 1712	CG	GLN A 112	2.633	-11.256	4.722	1.00	0.00
ATOM 1713	CD	GLN A 112	3.148	-11.952	5.967	1.00	0.00
ATOM 1714	OE1	GLN A 112	4.283	-12.429	6.000	1.00	0.00
ATOM 1715	NE2	GLN A 112	2.315	-12.013	6.999	1.00	0.00
ATOM 1716	H	GLN A 112	5.116	-9.636	1.577	1.00	0.00
ATOM 1717	HA	GLN A 112	2.382	-10.569	2.039	1.00	0.00
ATOM 1718	1HB	GLN A 112	3.853	-12.141	3.226	1.00	0.00
ATOM 1719	2HB	GLN A 112	4.603	-10.797	4.078	1.00	0.00
ATOM 1720	1HG	GLN A 112	2.313	-10.260	4.991	1.00	0.00
ATOM 1721	2HG	GLN A 112	1.789	-11.812	4.339	1.00	0.00
ATOM 1722	1HE2	GLN A 112	1.426	-11.611	6.900	1.00	0.00
ATOM 1723	2HE2	GLN A 112	2.622	-12.457	7.816	1.00	0.00
ATOM 1724	N	LEU A 113	1.841	-8.303	2.837	1.00	0.00
ATOM 1725	CA	LEU A 113	1.478	-6.973	3.314	1.00	0.00
ATOM 1726	C	LEU A 113	0.886	-7.049	4.718	1.00	0.00
ATOM 1727	O	LEU A 113	-0.330	-7.135	4.885	1.00	0.00
ATOM 1728	CB	LEU A 113	0.480	-6.318	2.352	1.00	0.00

ATOM 1729	CG	LEU A 113	0.032	-4.896	2.718	1.00	0.00
ATOM 1730	CD1	LEU A 113	-1.200	-4.934	3.609	1.00	0.00
ATOM 1731	CD2	LEU A 113	1.157	-4.126	3.397	1.00	0.00
ATOM 1732	H	LEU A 113	1.173	-8.839	2.360	1.00	0.00
ATOM 1733	HA	LEU A 113	2.377	-6.377	3.348	1.00	0.00
ATOM 1734	1HB	LEU A 113	0.931	-6.286	1.370	1.00	0.00
ATOM 1735	2HB	LEU A 113	-0.399	-6.944	2.301	1.00	0.00
ATOM 1736	HG	LEU A 113	-0.234	-4.369	1.812	1.00	0.00
ATOM 1737	1HD1	LEU A 113	-0.902	-4.812	4.640	1.00	0.00
ATOM 1738	2HD1	LEU A 113	-1.701	-5.884	3.489	1.00	0.00
ATOM 1739	3HD1	LEU A 113	-1.871	-4.136	3.330	1.00	0.00
ATOM 1740	1HD2	LEU A 113	1.492	-4.669	4.268	1.00	0.00
ATOM 1741	2HD2	LEU A 113	0.797	-3.153	3.697	1.00	0.00
ATOM 1742	3HD2	LEU A 113	1.979	-4.007	2.707	1.00	0.00
ATOM 1743	N	LEU A 114	1.756	-7.022	5.723	1.00	0.00
ATOM 1744	CA	LEU A 114	1.325	-7.089	7.115	1.00	0.00
ATOM 1745	C	LEU A 114	0.583	-8.395	7.396	1.00	0.00
ATOM 1746	O	LEU A 114	1.158	-9.343	7.930	1.00	0.00
ATOM 1747	CB	LEU A 114	0.434	-5.892	7.456	1.00	0.00
ATOM 1748	CG	LEU A 114	1.168	-4.555	7.581	1.00	0.00
ATOM 1749	CD1	LEU A 114	0.206	-3.456	8.002	1.00	0.00
ATOM 1750	CD2	LEU A 114	2.317	-4.670	8.573	1.00	0.00
ATOM 1751	H	LEU A 114	2.713	-6.956	5.522	1.00	0.00
ATOM 1752	HA	LEU A 114	2.209	-7.055	7.735	1.00	0.00
ATOM 1753	1HB	LEU A 114	-0.316	-5.797	6.683	1.00	0.00
ATOM 1754	2HB	LEU A 114	-0.062	-6.095	8.393	1.00	0.00
ATOM 1755	HG	LEU A 114	1.581	-4.288	6.619	1.00	0.00

ATOM 1756	1HD1	LEU	A	114	-0.660	-3.895	8.474	1.00	0.00
ATOM 1757	2HD1	LEU	A	114	-0.105	-2.898	7.131	1.00	0.00
ATOM 1758	3HD1	LEU	A	114	0.698	-2.792	8.697	1.00	0.00
ATOM 1759	1HD2	LEU	A	114	2.433	-3.734	9.099	1.00	0.00
ATOM 1760	2HD2	LEU	A	114	3.228	-4.903	8.043	1.00	0.00
ATOM 1761	3HD2	LEU	A	114	2.102	-5.457	9.283	1.00	0.00
ATOM 1762	N	ASN	A	115	-0.695	-8.439	7.032	1.00	0.00
ATOM 1763	CA	ASN	A	115	-1.511	-9.629	7.243	1.00	0.00
ATOM 1764	C	ASN	A	115	-2.226	-10.034	5.958	1.00	0.00
ATOM 1765	O	ASN	A	115	-3.321	-10.595	5.995	1.00	0.00
ATOM 1766	CB	ASN	A	115	-2.534	-9.380	8.353	1.00	0.00
ATOM 1767	CG	ASN	A	115	-3.082	-10.669	8.933	1.00	0.00
ATOM 1768	OD1	ASN	A	115	-2.409	-11.351	9.707	1.00	0.00
ATOM 1769	ND2	ASN	A	115	-4.311	-11.010	8.562	1.00	0.00
ATOM 1770	H	ASN	A	115	-1.098	-7.652	6.608	1.00	0.00
ATOM 1771	HA	ASN	A	115	-0.854	-10.431	7.545	1.00	0.00
ATOM 1772	1HB	ASN	A	115	-2.066	-8.819	9.148	1.00	0.00
ATOM 1773	2HB	ASN	A	115	-3.358	-8.808	7.952	1.00	0.00
ATOM 1774	1HD2	ASN	A	115	-4.788	-10.420	7.943	1.00	0.00
ATOM 1775	2HD2	ASN	A	115	-4.690	-11.839	8.923	1.00	0.00
ATOM 1776	N	PHE	A	116	-1.600	-9.746	4.822	1.00	0.00
ATOM 1777	CA	PHE	A	116	-2.177	-10.080	3.525	1.00	0.00
ATOM 1778	C	PHE	A	116	-1.097	-10.551	2.555	1.00	0.00
ATOM 1779	O	PHE	A	116	-0.448	-9.743	1.893	1.00	0.00
ATOM 1780	CB	PHE	A	116	-2.909	-8.871	2.940	1.00	0.00
ATOM 1781	CG	PHE	A	116	-4.302	-8.696	3.475	1.00	0.00
ATOM 1782	CD1	PHE	A	116	-5.358	-9.416	2.940	1.00	0.00

ATOM 1783	CD2	PHE A 116	-4.555	-7.812	4.511	1.00	0.00
ATOM 1784	CE1	PHE A 116	-6.642	-9.257	3.429	1.00	0.00
ATOM 1785	CE2	PHE A 116	-5.836	-7.649	5.004	1.00	0.00
ATOM 1786	CZ	PHE A 116	-6.880	-8.372	4.463	1.00	0.00
ATOM 1787	H	PHE A 116	-0.729	-9.297	4.856	1.00	0.00
ATOM 1788	HA	PHE A 116	-2.884	-10.881	3.674	1.00	0.00
ATOM 1789	1HB	PHE A 116	-2.350	-7.975	3.171	1.00	0.00
ATOM 1790	2HB	PHE A 116	-2.974	-8.982	1.868	1.00	0.00
ATOM 1791	HD1	PHE A 116	-5.173	-10.108	2.132	1.00	0.00
ATOM 1792	HD2	PHE A 116	-3.739	-7.246	4.936	1.00	0.00
ATOM 1793	HE1	PHE A 116	-7.456	-9.825	3.003	1.00	0.00
ATOM 1794	HE2	PHE A 116	-6.020	-6.957	5.813	1.00	0.00
ATOM 1795	HZ	PHE A 116	-7.882	-8.247	4.846	1.00	0.00
ATOM 1796	N	THR A 117	-0.911	-11.865	2.478	1.00	0.00
ATOM 1797	CA	THR A 117	0.090	-12.445	1.590	1.00	0.00
ATOM 1798	C	THR A 117	-0.259	-12.178	0.129	1.00	0.00
ATOM 1799	O	THR A 117	-1.267	-12.670	-0.378	1.00	0.00
ATOM 1800	CB	THR A 117	0.206	-13.950	1.832	1.00	0.00
ATOM 1801	OG1	THR A 117	-1.067	-14.568	1.770	1.00	0.00
ATOM 1802	CG2	THR A 117	0.819	-14.294	3.173	1.00	0.00
ATOM 1803	H	THR A 117	-1.460	-12.459	3.031	1.00	0.00
ATOM 1804	HA	THR A 117	1.038	-11.980	1.811	1.00	0.00
ATOM 1805	HB	THR A 117	0.831	-14.381	1.063	1.00	0.00
ATOM 1806	HG1	THR A 117	-0.964	-15.520	1.835	1.00	0.00
ATOM 1807	1HG2	THR A 117	1.875	-14.067	3.155	1.00	0.00
ATOM 1808	2HG2	THR A 117	0.681	-15.346	3.372	1.00	0.00
ATOM 1809	3HG2	THR A 117	0.340	-13.714	3.947	1.00	0.00

ATOM 1810	N	LEU A 118	0.581	-11.397	-0.543	1.00	0.00
ATOM 1811	CA	LEU A 118	0.358	-11.068	-1.946	1.00	0.00
ATOM 1812	C	LEU A 118	1.630	-11.272	-2.764	1.00	0.00
ATOM 1813	O	LEU A 118	2.732	-11.304	-2.217	1.00	0.00
ATOM 1814	CB	LEU A 118	-0.129	-9.624	-2.086	1.00	0.00
ATOM 1815	CG	LEU A 118	0.786	-8.566	-1.466	1.00	0.00
ATOM 1816	CD1	LEU A 118	1.804	-8.079	-2.484	1.00	0.00
ATOM 1817	CD2	LEU A 118	-0.035	-7.402	-0.931	1.00	0.00
ATOM 1818	H	LEU A 118	1.368	-11.035	-0.086	1.00	0.00
ATOM 1819	HA	LEU A 118	-0.405	-11.732	-2.324	1.00	0.00
ATOM 1820	1HB	LEU A 118	-0.239	-9.403	-3.138	1.00	0.00
ATOM 1821	2HB	LEU A 118	-1.099	-9.547	-1.617	1.00	0.00
ATOM 1822	HG	LEU A 118	1.324	-9.005	-0.639	1.00	0.00
ATOM 1823	1HD1	LEU A 118	2.720	-8.642	-2.375	1.00	0.00
ATOM 1824	2HD1	LEU A 118	2.004	-7.030	-2.318	1.00	0.00
ATOM 1825	3HD1	LEU A 118	1.413	-8.218	-3.480	1.00	0.00
ATOM 1826	1HD2	LEU A 118	0.519	-6.484	-1.053	1.00	0.00
ATOM 1827	2HD2	LEU A 118	-0.243	-7.560	0.118	1.00	0.00
ATOM 1828	3HD2	LEU A 118	-0.965	-7.337	-1.476	1.00	0.00
ATOM 1829	N	ASP A 119	1.467	-11.411	-4.074	1.00	0.00
ATOM 1830	CA	ASP A 119	2.601	-11.615	-4.969	1.00	0.00
ATOM 1831	C	ASP A 119	3.447	-10.350	-5.077	1.00	0.00
ATOM 1832	O	ASP A 119	3.030	-9.273	-4.653	1.00	0.00
ATOM 1833	CB	ASP A 119	2.113	-12.041	-6.356	1.00	0.00
ATOM 1834	CG	ASP A 119	2.798	-13.300	-6.848	1.00	0.00
ATOM 1835	OD1	ASP A 119	2.476	-14.392	-6.333	1.00	0.00
ATOM 1836	OD2	ASP A 119	3.657	-13.196	-7.749	1.00	0.00



ATOM 1837	H	ASP A 119	0.562	-11.376	-4.450	1.00	0.00
ATOM 1838	HA	ASP A 119	3.210	-12.405	-4.554	1.00	0.00
ATOM 1839	1HB	ASP A 119	1.050	-12.225	-6.314	1.00	0.00
ATOM 1840	2HB	ASP A 119	2.309	-11.247	-7.061	1.00	0.00
ATOM 1841	N	ARG A 120	4.637	-10.490	-5.651	1.00	0.00
ATOM 1842	CA	ARG A 120	5.545	-9.361	-5.820	1.00	0.00
ATOM 1843	C	ARG A 120	5.560	-8.891	-7.271	1.00	0.00
ATOM 1844	O	ARG A 120	5.558	-7.691	-7.545	1.00	0.00
ATOM 1845	CB	ARG A 120	6.958	-9.746	-5.379	1.00	0.00
ATOM 1846	CG	ARG A 120	7.973	-8.625	-5.538	1.00	0.00
ATOM 1847	CD	ARG A 120	8.791	-8.787	-6.810	1.00	0.00
ATOM 1848	NE	ARG A 120	9.769	-9.869	-6.702	1.00	0.00
ATOM 1849	CZ	ARG A 120	9.584	-11.098	-7.182	1.00	0.00
ATOM 1850	NH1	ARG A 120	8.450	-11.421	-7.795	1.00	0.00
ATOM 1851	NH2	ARG A 120	10.536	-12.011	-7.044	1.00	0.00
ATOM 1852	H	ARG A 120	4.913	-11.375	-5.970	1.00	0.00
ATOM 1853	HA	ARG A 120	5.189	-8.554	-5.196	1.00	0.00
ATOM 1854	1HB	ARG A 120	6.932	-10.032	-4.337	1.00	0.00
ATOM 1855	2HB	ARG A 120	7.289	-10.589	-5.965	1.00	0.00
ATOM 1856	1HG	ARG A 120	7.450	-7.682	-5.577	1.00	0.00
ATOM 1857	2HG	ARG A 120	8.640	-8.635	-4.688	1.00	0.00
ATOM 1858	1HD	ARG A 120	8.122	-8.997	-7.630	1.00	0.00
ATOM 1859	2HD	ARG A 120	9.314	-7.862	-7.004	1.00	0.00
ATOM 1860	HE	ARG A 120	10.615	-9.667	-6.249	1.00	0.00
ATOM 1861	1HH1	ARG A 120	7.725	-10.744	-7.901	1.00	0.00
ATOM 1862	2HH1	ARG A 120	8.323	-12.346	-8.152	1.00	0.00
ATOM 1863	1HH2	ARG A 120	11.390	-11.776	-6.581	1.00	0.00

ATOM	1864	2HH2	ARG	A	120	10.399	-12.934	-7.405	1.00	0.00
ATOM	1865	N	LYS	A	121	5.575	-9.846	-8.196	1.00	0.00
ATOM	1866	CA	LYS	A	121	5.589	-9.530	-9.620	1.00	0.00
ATOM	1867	C	LYS	A	121	4.331	-8.766	-10.021	1.00	0.00
ATOM	1868	O	LYS	A	121	4.334	-8.016	-10.998	1.00	0.00
ATOM	1869	CB	LYS	A	121	5.706	-10.812	-10.446	1.00	0.00
ATOM	1870	CG	LYS	A	121	4.626	-11.837	-10.136	1.00	0.00
ATOM	1871	CD	LYS	A	121	3.758	-12.122	-11.353	1.00	0.00
ATOM	1872	CE	LYS	A	121	4.176	-13.409	-12.046	1.00	0.00
ATOM	1873	NZ	LYS	A	121	3.996	-13.328	-13.522	1.00	0.00
ATOM	1874	H	LYS	A	121	5.575	-10.784	-7.914	1.00	0.00
ATOM	1875	HA	LYS	A	121	6.451	-8.909	-9.812	1.00	0.00
ATOM	1876	1HB	LYS	A	121	5.644	-10.558	-11.494	1.00	0.00
ATOM	1877	2HB	LYS	A	121	6.667	-11.265	-10.251	1.00	0.00
ATOM	1878	1HG	LYS	A	121	5.094	-12.756	-9.819	1.00	0.00
ATOM	1879	2HG	LYS	A	121	4.000	-11.456	-9.341	1.00	0.00
ATOM	1880	1HD	LYS	A	121	2.729	-12.214	-11.036	1.00	0.00
ATOM	1881	2HD	LYS	A	121	3.851	-11.302	-12.049	1.00	0.00
ATOM	1882	1HE	LYS	A	121	5.217	-13.597	-11.830	1.00	0.00
ATOM	1883	2HE	LYS	A	121	3.577	-14.221	-11.662	1.00	0.00
ATOM	1884	1HZ	LYS	A	121	4.692	-13.936	-14.001	1.00	0.00
ATOM	1885	2HZ	LYS	A	121	4.127	-12.349	-13.846	1.00	0.00
ATOM	1886	3HZ	LYS	A	121	3.039	-13.642	-13.783	1.00	0.00
ATOM	1887	N	SER	A	122	3.256	-8.960	-9.263	1.00	0.00
ATOM	1888	CA	SER	A	122	1.993	-8.288	-9.542	1.00	0.00
ATOM	1889	C	SER	A	122	2.054	-6.820	-9.132	1.00	0.00
ATOM	1890	O	SER	A	122	1.457	-5.959	-9.780	1.00	0.00

ATOM 1891	CB	SER A 122	0.847	-8.986	-8.807	1.00	0.00
ATOM 1892	OG	SER A 122	0.901	-8.727	-7.414	1.00	0.00
ATOM 1893	H	SER A 122	3.314	-9.569	-8.498	1.00	0.00
ATOM 1894	HA	SER A 122	1.814	-8.346	-10.605	1.00	0.00
ATOM 1895	1HB	SER A 122	-0.096	-8.627	-9.190	1.00	0.00
ATOM 1896	2HB	SER A 122	0.919	-10.052	-8.964	1.00	0.00
ATOM 1897	HG	SER A 122	1.092	-9.541	-6.944	1.00	0.00
ATOM 1898	N	VAL A 123	2.780	-6.541	-8.055	1.00	0.00
ATOM 1899	CA	VAL A 123	2.921	-5.176	-7.560	1.00	0.00
ATOM 1900	C	VAL A 123	3.545	-4.270	-8.617	1.00	0.00
ATOM 1901	O	VAL A 123	4.476	-4.667	-9.318	1.00	0.00
ATOM 1902	CB	VAL A 123	3.781	-5.125	-6.283	1.00	0.00
ATOM 1903	CG1	VAL A 123	3.766	-3.727	-5.682	1.00	0.00
ATOM 1904	CG2	VAL A 123	3.300	-6.155	-5.270	1.00	0.00
ATOM 1905	H	VAL A 123	3.234	-7.269	-7.581	1.00	0.00
ATOM 1906	HA	VAL A 123	1.935	-4.806	-7.320	1.00	0.00
ATOM 1907	HB	VAL A 123	4.801	-5.365	-6.550	1.00	0.00
ATOM 1908	1HG1	VAL A 123	3.635	-2.999	-6.468	1.00	0.00
ATOM 1909	2HG1	VAL A 123	4.701	-3.544	-5.173	1.00	0.00
ATOM 1910	3HG1	VAL A 123	2.951	-3.648	-4.977	1.00	0.00
ATOM 1911	1HG2	VAL A 123	2.601	-6.829	-5.744	1.00	0.00
ATOM 1912	2HG2	VAL A 123	2.814	-5.652	-4.447	1.00	0.00
ATOM 1913	3HG2	VAL A 123	4.145	-6.717	-4.899	1.00	0.00
ATOM 1914	N	PHE A 124	3.024	-3.052	-8.727	1.00	0.00
ATOM 1915	CA	PHE A 124	3.531	-2.091	-9.699	1.00	0.00
ATOM 1916	C	PHE A 124	2.982	-0.695	-9.419	1.00	0.00
ATOM 1917	O	PHE A 124	1.783	-0.521	-9.200	1.00	0.00

ATOM	1918	CB	PHE A 124	3.156	-2.524	-11.118	1.00	0.00
ATOM	1919	CG	PHE A 124	3.669	-1.598	-12.184	1.00	0.00
ATOM	1920	CD1	PHE A 124	4.844	-1.882	-12.861	1.00	0.00
ATOM	1921	CD2	PHE A 124	2.975	-0.443	-12.509	1.00	0.00
ATOM	1922	CE1	PHE A 124	5.317	-1.032	-13.843	1.00	0.00
ATOM	1923	CE2	PHE A 124	3.443	0.411	-13.489	1.00	0.00
ATOM	1924	CZ	PHE A 124	4.617	0.116	-14.157	1.00	0.00
ATOM	1925	H	PHE A 124	2.283	-2.794	-8.140	1.00	0.00
ATOM	1926	HA	PHE A 124	4.607	-2.066	-9.612	1.00	0.00
ATOM	1927	1HB	PHE A 124	3.565	-3.505	-11.307	1.00	0.00
ATOM	1928	2HB	PHE A 124	2.080	-2.565	-11.201	1.00	0.00
ATOM	1929	HD1	PHE A 124	5.393	-2.780	-12.618	1.00	0.00
ATOM	1930	HD2	PHE A 124	2.058	-0.212	-11.988	1.00	0.00
ATOM	1931	HE1	PHE A 124	6.234	-1.265	-14.364	1.00	0.00
ATOM	1932	HE2	PHE A 124	2.893	1.308	-13.732	1.00	0.00
ATOM	1933	HZ	PHE A 124	4.984	0.782	-14.924	1.00	0.00
ATOM	1934	N	VAL A 125	3.868	0.296	-9.426	1.00	0.00
ATOM	1935	CA	VAL A 125	3.471	1.676	-9.173	1.00	0.00
ATOM	1936	C	VAL A 125	3.941	2.598	-10.294	1.00	0.00
ATOM	1937	O	VAL A 125	5.104	2.560	-10.696	1.00	0.00
ATOM	1938	CB	VAL A 125	4.030	2.183	-7.828	1.00	0.00
ATOM	1939	CG1	VAL A 125	5.551	2.205	-7.850	1.00	0.00
ATOM	1940	CG2	VAL A 125	3.471	3.560	-7.502	1.00	0.00
ATOM	1941	H	VAL A 125	4.810	0.094	-9.607	1.00	0.00
ATOM	1942	HA	VAL A 125	2.393	1.707	-9.124	1.00	0.00
ATOM	1943	HB	VAL A 125	3.716	1.500	-7.051	1.00	0.00
ATOM	1944	1HG1	VAL A 125	5.921	2.507	-6.881	1.00	0.00

ATOM	1945	2HG1	VAL	A	125	5.890	2.905	-8.598	1.00	0.00
ATOM	1946	3HG1	VAL	A	125	5.923	1.218	-8.086	1.00	0.00
ATOM	1947	1HG2	VAL	A	125	4.251	4.173	-7.073	1.00	0.00
ATOM	1948	2HG2	VAL	A	125	2.661	3.462	-6.795	1.00	0.00
ATOM	1949	3HG2	VAL	A	125	3.107	4.024	-8.407	1.00	0.00
ATOM	1950	N	ASP	A	126	3.028	3.424	-10.797	1.00	0.00
ATOM	1951	CA	ASP	A	126	3.351	4.355	-11.874	1.00	0.00
ATOM	1952	C	ASP	A	126	3.137	5.799	-11.430	1.00	0.00
ATOM	1953	O	ASP	A	126	2.713	6.057	-10.304	1.00	0.00
ATOM	1954	CB	ASP	A	126	2.495	4.055	-13.106	1.00	0.00
ATOM	1955	CG	ASP	A	126	3.262	4.237	-14.401	1.00	0.00
ATOM	1956	OD1	ASP	A	126	3.250	5.360	-14.946	1.00	0.00
ATOM	1957	OD2	ASP	A	126	3.875	3.255	-14.870	1.00	0.00
ATOM	1958	H	ASP	A	126	2.118	3.407	-10.437	1.00	0.00
ATOM	1959	HA	ASP	A	126	4.391	4.220	-12.129	1.00	0.00
ATOM	1960	1HB	ASP	A	126	2.146	3.034	-13.056	1.00	0.00
ATOM	1961	2HB	ASP	A	126	1.644	4.721	-13.116	1.00	0.00
ATOM	1962	N	SER	A	127	3.432	6.736	-12.325	1.00	0.00
ATOM	1963	CA	SER	A	127	3.271	8.156	-12.027	1.00	0.00
ATOM	1964	C	SER	A	127	1.899	8.652	-12.470	1.00	0.00
ATOM	1965	O	SER	A	127	1.765	9.293	-13.512	1.00	0.00
ATOM	1966	CB	SER	A	127	4.368	8.970	-12.716	1.00	0.00
ATOM	1967	OG	SER	A	127	4.719	10.106	-11.946	1.00	0.00
ATOM	1968	H	SER	A	127	3.764	6.468	-13.207	1.00	0.00
ATOM	1969	HA	SER	A	127	3.359	8.281	-10.959	1.00	0.00
ATOM	1970	1HB	SER	A	127	5.245	8.353	-12.844	1.00	0.00
ATOM	1971	2HB	SER	A	127	4.016	9.299	-13.682	1.00	0.00

ATOM 1972	HG	SER A 127	5.662	10.090	-11.762	1.00	0.00
ATOM 1973	N	GLY A 128	0.882	8.352	-11.668	1.00	0.00
ATOM 1974	CA	GLY A 128	-0.469	8.774	-11.991	1.00	0.00
ATOM 1975	C	GLY A 128	-1.011	8.090	-13.232	1.00	0.00
ATOM 1976	O	GLY A 128	-0.285	7.366	-13.912	1.00	0.00
ATOM 1977	H	GLY A 128	1.050	7.840	-10.851	1.00	0.00
ATOM 1978	1HA	GLY A 128	-1.114	8.544	-11.157	1.00	0.00
ATOM 1979	2HA	GLY A 128	-0.473	9.842	-12.152	1.00	0.00
ATOM 1980	N	PRO A 129	-2.298	8.302	-13.553	1.00	0.00
ATOM 1981	CA	PRO A 129	-2.934	7.696	-14.719	1.00	0.00
ATOM 1982	C	PRO A 129	-2.690	8.495	-15.997	1.00	0.00
ATOM 1983	O	PRO A 129	-2.351	7.931	-17.037	1.00	0.00
ATOM 1984	CB	PRO A 129	-4.413	7.717	-14.344	1.00	0.00
ATOM 1985	CG	PRO A 129	-4.569	8.922	-13.476	1.00	0.00
ATOM 1986	CD	PRO A 129	-3.239	9.147	-12.794	1.00	0.00
ATOM 1987	HA	PRO A 129	-2.608	6.676	-14.864	1.00	0.00
ATOM 1988	1HB	PRO A 129	-5.012	7.794	-15.240	1.00	0.00
ATOM 1989	2HB	PRO A 129	-4.665	6.812	-13.812	1.00	0.00
ATOM 1990	1HG	PRO A 129	-4.825	9.777	-14.083	1.00	0.00
ATOM 1991	2HG	PRO A 129	-5.338	8.742	-12.740	1.00	0.00
ATOM 1992	1HD	PRO A 129	-2.956	10.187	-12.860	1.00	0.00
ATOM 1993	2HD	PRO A 129	-3.288	8.837	-11.762	1.00	0.00
ATOM 1994	N	SER A 130	-2.865	9.810	-15.910	1.00	0.00
ATOM 1995	CA	SER A 130	-2.665	10.685	-17.059	1.00	0.00
ATOM 1996	C	SER A 130	-2.861	12.147	-16.672	1.00	0.00
ATOM 1997	O	SER A 130	-3.535	12.453	-15.688	1.00	0.00
ATOM 1998	CB	SER A 130	-3.630	10.311	-18.187	1.00	0.00

ATOM	1999	OG	SER A 130	-4.923	10.840	-17.948	1.00	0.00
ATOM	2000	H	SER A 130	-3.136	10.201	-15.054	1.00	0.00
ATOM	2001	HA	SER A 130	-1.652	10.550	-17.407	1.00	0.00
ATOM	2002	1HB	SER A 130	-3.260	10.708	-19.121	1.00	0.00
ATOM	2003	2HB	SER A 130	-3.701	9.236	-18.256	1.00	0.00
ATOM	2004	HG	SER A 130	-5.571	10.132	-17.989	1.00	0.00
ATOM	2005	N	SER A 131	-2.269	13.045	-17.452	1.00	0.00
ATOM	2006	CA	SER A 131	-2.379	14.475	-17.190	1.00	0.00
ATOM	2007	C	SER A 131	-2.730	15.237	-18.464	1.00	0.00
ATOM	2008	O	SER A 131	-2.137	15.008	-19.519	1.00	0.00
ATOM	2009	CB	SER A 131	-1.070	15.011	-16.607	1.00	0.00
ATOM	2010	OG	SER A 131	-1.079	16.427	-16.547	1.00	0.00
ATOM	2011	H	SER A 131	-1.746	12.739	-18.221	1.00	0.00
ATOM	2012	HA	SER A 131	-3.169	14.621	-16.469	1.00	0.00
ATOM	2013	1HB	SER A 131	-0.938	14.623	-15.608	1.00	0.00
ATOM	2014	2HB	SER A 131	-0.246	14.694	-17.228	1.00	0.00
ATOM	2015	HG	SER A 131	-0.771	16.784	-17.384	1.00	0.00
ATOM	2016	N	GLY A 132	-3.696	16.142	-18.359	1.00	0.00
ATOM	2017	CA	GLY A 132	-4.109	16.923	-19.511	1.00	0.00
ATOM	2018	C	GLY A 132	-5.006	16.142	-20.450	1.00	0.00
ATOM	2019	H	GLY A 132	-4.133	16.282	-17.493	1.00	0.00
ATOM	2020	1HA	GLY A 132	-4.642	17.798	-19.166	1.00	0.00
ATOM	2021	2HA	GLY A 132	-3.229	17.240	-20.052	1.00	0.00
TER	2022		GLY A 132					

ENDMDL

Three-Dimensional Structure Coordinate 7

ATOM 1	N	GLY A	1	-6.342	15.131	-13.202	1.00	0.00
ATOM 2	CA	GLY A	1	-4.964	15.214	-12.644	1.00	0.00
ATOM 3	C	GLY A	1	-4.151	16.330	-13.271	1.00	0.00
ATOM 4	O	GLY A	1	-3.244	16.077	-14.064	1.00	0.00
ATOM 5	1H	GLY A	1	-6.747	16.084	-13.296	1.00	0.00
ATOM 6	2H	GLY A	1	-6.950	14.569	-12.572	1.00	0.00
ATOM 7	3H	GLY A	1	-6.322	14.680	-14.139	1.00	0.00
ATOM 8	1HA	GLY A	1	-5.028	15.384	-11.579	1.00	0.00
ATOM 9	2HA	GLY A	1	-4.460	14.274	-12.819	1.00	0.00
ATOM 10	N	SER A	2	-4.475	17.568	-12.914	1.00	0.00
ATOM 11	CA	SER A	2	-3.770	18.727	-13.447	1.00	0.00
ATOM 12	C	SER A	2	-3.517	19.760	-12.353	1.00	0.00
ATOM 13	O	SER A	2	-3.919	19.573	-11.205	1.00	0.00
ATOM 14	CB	SER A	2	-4.570	19.359	-14.586	1.00	0.00
ATOM 15	OG	SER A	2	-3.714	19.994	-15.520	1.00	0.00
ATOM 16	H	SER A	2	-5.209	17.705	-12.278	1.00	0.00
ATOM 17	HA	SER A	2	-2.819	18.388	-13.831	1.00	0.00
ATOM 18	1HB	SER A	2	-5.132	18.592	-15.097	1.00	0.00
ATOM 19	2HB	SER A	2	-5.250	20.094	-14.181	1.00	0.00
ATOM 20	HG	SER A	2	-3.020	19.386	-15.784	1.00	0.00
ATOM 21	N	SER A	3	-2.851	20.850	-12.717	1.00	0.00
ATOM 22	CA	SER A	3	-2.546	21.913	-11.768	1.00	0.00
ATOM 23	C	SER A	3	-3.776	22.776	-11.504	1.00	0.00
ATOM 24	O	SER A	3	-4.195	23.554	-12.361	1.00	0.00
ATOM 25	CB	SER A	3	-1.402	22.783	-12.292	1.00	0.00
ATOM 26	OG	SER A	3	-0.148	22.311	-11.827	1.00	0.00
ATOM 27	H	SER A	3	-2.557	20.942	-13.648	1.00	0.00



ATOM 28	HA	SER A	3	-2.239	21.452	-10.841	1.00	0.00
ATOM 29	1HB	SER A	3	-1.401	22.760	-13.372	1.00	0.00
ATOM 30	2HB	SER A	3	-1.539	23.798	-11.952	1.00	0.00
ATOM 31	HG	SER A	3	0.552	22.872	-12.169	1.00	0.00
ATOM 32	N	GLY A	4	-4.349	22.632	-10.314	1.00	0.00
ATOM 33	CA	GLY A	4	-5.525	23.403	-9.959	1.00	0.00
ATOM 34	C	GLY A	4	-5.198	24.850	-9.642	1.00	0.00
ATOM 35	O	GLY A	4	-4.210	25.135	-8.966	1.00	0.00
ATOM 36	H	GLY A	4	-3.970	21.997	-9.671	1.00	0.00
ATOM 37	1HA	GLY A	4	-6.222	23.377	-10.784	1.00	0.00
ATOM 38	2HA	GLY A	4	-5.990	22.954	-9.095	1.00	0.00
ATOM 39	N	SER A	5	-6.030	25.764	-10.131	1.00	0.00
ATOM 40	CA	SER A	5	-5.825	27.188	-9.896	1.00	0.00
ATOM 41	C	SER A	5	-6.146	27.550	-8.450	1.00	0.00
ATOM 42	O	SER A	5	-5.460	28.370	-7.838	1.00	0.00
ATOM 43	CB	SER A	5	-6.694	28.013	-10.846	1.00	0.00
ATOM 44	OG	SER A	5	-6.430	29.398	-10.706	1.00	0.00
ATOM 45	H	SER A	5	-6.801	25.473	-10.662	1.00	0.00
ATOM 46	HA	SER A	5	-4.785	27.409	-10.088	1.00	0.00
ATOM 47	1HB	SER A	5	-6.486	27.723	-11.865	1.00	0.00
ATOM 48	2HB	SER A	5	-7.735	27.833	-10.626	1.00	0.00
ATOM 49	HG	SER A	5	-5.481	29.545	-10.705	1.00	0.00
ATOM 50	N	SER A	6	-7.193	26.935	-7.910	1.00	0.00
ATOM 51	CA	SER A	6	-7.607	27.192	-6.535	1.00	0.00
ATOM 52	C	SER A	6	-7.054	26.127	-5.593	1.00	0.00
ATOM 53	O	SER A	6	-7.733	25.692	-4.664	1.00	0.00
ATOM 54	CB	SER A	6	-9.133	27.233	-6.439	1.00	0.00

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ATOM 55	OG	SER A	6	-9.555	27.398	-5.097	1.00	0.00
ATOM 56	H	SER A	6	-7.699	26.292	-8.449	1.00	0.00
ATOM 57	HA	SER A	6	-7.211	28.153	-6.244	1.00	0.00
ATOM 58	1HB	SER A	6	-9.506	28.060	-7.025	1.00	0.00
ATOM 59	2HB	SER A	6	-9.540	26.309	-6.822	1.00	0.00
ATOM 60	HG	SER A	6	-10.494	27.595	-5.079	1.00	0.00
ATOM 61	N	GLY A	7	-5.816	25.712	-5.840	1.00	0.00
ATOM 62	CA	GLY A	7	-5.192	24.702	-5.005	1.00	0.00
ATOM 63	C	GLY A	7	-3.728	24.991	-4.741	1.00	0.00
ATOM 64	O	GLY A	7	-3.222	26.053	-5.101	1.00	0.00
ATOM 65	H	GLY A	7	-5.321	26.094	-6.595	1.00	0.00
ATOM 66	1HA	GLY A	7	-5.715	24.657	-4.062	1.00	0.00
ATOM 67	2HA	GLY A	7	-5.275	23.743	-5.497	1.00	0.00
ATOM 68	N	SER A	8	-3.044	24.041	-4.110	1.00	0.00
ATOM 69	CA	SER A	8	-1.629	24.199	-3.796	1.00	0.00
ATOM 70	C	SER A	8	-0.769	23.970	-5.036	1.00	0.00
ATOM 71	O	SER A	8	0.212	24.678	-5.263	1.00	0.00
ATOM 72	CB	SER A	8	-1.217	23.225	-2.692	1.00	0.00
ATOM 73	OG	SER A	8	-2.032	22.065	-2.704	1.00	0.00
ATOM 74	H	SER A	8	-3.502	23.216	-3.848	1.00	0.00
ATOM 75	HA	SER A	8	-1.476	25.210	-3.449	1.00	0.00
ATOM 76	1HB	SER A	8	-0.190	22.927	-2.840	1.00	0.00
ATOM 77	2HB	SER A	8	-1.317	23.710	-1.731	1.00	0.00
ATOM 78	HG	SER A	8	-1.482	21.288	-2.824	1.00	0.00
ATOM 79	N	SER A	9	-1.145	22.977	-5.835	1.00	0.00
ATOM 80	CA	SER A	9	-0.409	22.655	-7.052	1.00	0.00
ATOM 81	C	SER A	9	1.029	22.261	-6.730	1.00	0.00

ATOM 82	O	SER A	9	1.956	22.605	-7.462	1.00	0.00
ATOM 83	CB	SER A	9	-0.422	23.846	-8.011	1.00	0.00
ATOM 84	OG	SER A	9	-0.180	23.430	-9.344	1.00	0.00
ATOM 85	H	SER A	9	-1.936	22.448	-5.600	1.00	0.00
ATOM 86	HA	SER A	9	-0.900	21.818	-7.524	1.00	0.00
ATOM 87	1HB	SER A	9	-1.386	24.330	-7.968	1.00	0.00
ATOM 88	2HB	SER A	9	0.346	24.548	-7.722	1.00	0.00
ATOM 89	HG	SER A	9	-0.950	22.962	-9.678	1.00	0.00
ATOM 90	N	SER A	10	1.208	21.539	-5.628	1.00	0.00
ATOM 91	CA	SER A	10	2.533	21.098	-5.209	1.00	0.00
ATOM 92	C	SER A	10	2.501	19.649	-4.734	1.00	0.00
ATOM 93	O	SER A	10	3.269	19.256	-3.857	1.00	0.00
ATOM 94	CB	SER A	10	3.063	22.001	-4.093	1.00	0.00
ATOM 95	OG	SER A	10	3.782	23.101	-4.624	1.00	0.00
ATOM 96	H	SER A	10	0.429	21.296	-5.084	1.00	0.00
ATOM 97	HA	SER A	10	3.191	21.171	-6.062	1.00	0.00
ATOM 98	1HB	SER A	10	2.235	22.376	-3.512	1.00	0.00
ATOM 99	2HB	SER A	10	3.722	21.430	-3.455	1.00	0.00
ATOM 100	HG	SER A	10	4.370	22.794	-5.319	1.00	0.00
ATOM 101	N	SER A	11	1.607	18.860	-5.320	1.00	0.00
ATOM 102	CA	SER A	11	1.475	17.453	-4.958	1.00	0.00
ATOM 103	C	SER A	11	1.553	16.563	-6.195	1.00	0.00
ATOM 104	O	SER A	11	1.563	17.055	-7.324	1.00	0.00
ATOM 105	CB	SER A	11	0.153	17.214	-4.226	1.00	0.00
ATOM 106	OG	SER A	11	0.287	16.199	-3.247	1.00	0.00
ATOM 107	H	SER A	11	1.022	19.231	-6.014	1.00	0.00
ATOM 108	HA	SER A	11	2.292	17.203	-4.298	1.00	0.00

ATOM 109	1HB	SER A	11	-0.157	18.127	-3.740	1.00	0.00
ATOM 110	2HB	SER A	11	-0.601	16.913	-4.939	1.00	0.00
ATOM 111	N	GLN A	12	1.608	15.254	-5.976	1.00	0.00
ATOM 112	CA	GLN A	12	1.686	14.299	-7.075	1.00	0.00
ATOM 113	C	GLN A	12	0.872	13.046	-6.770	1.00	0.00
ATOM 114	O	GLN A	12	0.538	12.774	-5.617	1.00	0.00
ATOM 115	CB	GLN A	12	3.144	13.921	-7.348	1.00	0.00
ATOM 116	CG	GLN A	12	3.909	13.509	-6.102	1.00	0.00
ATOM 117	CD	GLN A	12	5.409	13.473	-6.324	1.00	0.00
ATOM 118	OE1	GLN A	12	5.904	12.735	-7.176	1.00	0.00
ATOM 119	NE2	GLN A	12	6.141	14.273	-5.558	1.00	0.00
ATOM 120	H	GLN A	12	1.597	14.922	-5.054	1.00	0.00
ATOM 121	HA	GLN A	12	1.278	14.773	-7.955	1.00	0.00
ATOM 122	1HB	GLN A	12	3.165	13.097	-8.046	1.00	0.00
ATOM 123	2HB	GLN A	12	3.647	14.768	-7.790	1.00	0.00
ATOM 124	1HG	GLN A	12	3.696	14.216	-5.314	1.00	0.00
ATOM 125	2HG	GLN A	12	3.581	12.525	-5.801	1.00	0.00
ATOM 126	1HE2	GLN A	12	5.679	14.834	-4.901	1.00	0.00
ATOM 127	2HE2	GLN A	12	7.114	14.270	-5.682	1.00	0.00
ATOM 128	N	HIS A	13	0.555	12.285	-7.814	1.00	0.00
ATOM 129	CA	HIS A	13	-0.221	11.059	-7.664	1.00	0.00
ATOM 130	C	HIS A	13	0.474	9.889	-8.354	1.00	0.00
ATOM 131	O	HIS A	13	0.664	9.896	-9.570	1.00	0.00
ATOM 132	CB	HIS A	13	-1.625	11.248	-8.242	1.00	0.00
ATOM 133	CG	HIS A	13	-2.356	12.423	-7.669	1.00	0.00
ATOM 134	ND1	HIS A	13	-3.264	13.170	-8.389	1.00	0.00
ATOM 135	CD2	HIS A	13	-2.309	12.979	-6.435	1.00	0.00

ATOM 136	CE1	HIS	A	13	-3.744	14.134	-7.624	1.00	0.00
ATOM 137	NE2	HIS	A	13	-3.181	14.040	-6.434	1.00	0.00
ATOM 138	H	HIS	A	13	0.850	12.556	-8.709	1.00	0.00
ATOM 139	HA	HIS	A	13	-0.301	10.845	-6.609	1.00	0.00
ATOM 140	1HB	HIS	A	13	-1.552	11.393	-9.310	1.00	0.00
ATOM 141	2HB	HIS	A	13	-2.212	10.363	-8.044	1.00	0.00
ATOM 142	HD1	HIS	A	13	-3.519	13.016	-9.323	1.00	0.00
ATOM 143	HD2	HIS	A	13	-1.700	12.649	-5.605	1.00	0.00
ATOM 144	HE1	HIS	A	13	-4.473	14.874	-7.921	1.00	0.00
ATOM 145	HE2	HIS	A	13	-3.302	14.678	-5.699	1.00	0.00
ATOM 146	N	PHE	A	14	0.852	8.884	-7.570	1.00	0.00
ATOM 147	CA	PHE	A	14	1.527	7.707	-8.106	1.00	0.00
ATOM 148	C	PHE	A	14	0.607	6.490	-8.074	1.00	0.00
ATOM 149	O	PHE	A	14	0.317	5.946	-7.009	1.00	0.00
ATOM 150	CB	PHE	A	14	2.802	7.418	-7.312	1.00	0.00
ATOM 151	CG	PHE	A	14	3.955	8.306	-7.686	1.00	0.00
ATOM 152	CD1	PHE	A	14	4.512	9.168	-6.756	1.00	0.00
ATOM 153	CD2	PHE	A	14	4.480	8.278	-8.968	1.00	0.00
ATOM 154	CE1	PHE	A	14	5.573	9.986	-7.097	1.00	0.00
ATOM 155	CE2	PHE	A	14	5.541	9.093	-9.315	1.00	0.00
ATOM 156	CZ	PHE	A	14	6.088	9.948	-8.377	1.00	0.00
ATOM 157	H	PHE	A	14	0.674	8.935	-6.607	1.00	0.00
ATOM 158	HA	PHE	A	14	1.792	7.916	-9.132	1.00	0.00
ATOM 159	1HB	PHE	A	14	2.603	7.559	-6.261	1.00	0.00
ATOM 160	2HB	PHE	A	14	3.101	6.395	-7.484	1.00	0.00
ATOM 161	HD1	PHE	A	14	4.111	9.197	-5.754	1.00	0.00
ATOM 162	HD2	PHE	A	14	4.053	7.609	-9.701	1.00	0.00

ATOM 163	HE1	PHE	A	14	5.998	10.653	-6.362	1.00	0.00
ATOM 164	HE2	PHE	A	14	5.942	9.061	-10.317	1.00	0.00
ATOM 165	HZ	PHE	A	14	6.916	10.586	-8.646	1.00	0.00
ATOM 166	N	ASN	A	15	0.150	6.071	-9.250	1.00	0.00
ATOM 167	CA	ASN	A	15	-0.741	4.920	-9.360	1.00	0.00
ATOM 168	C	ASN	A	15	-0.143	3.689	-8.684	1.00	0.00
ATOM 169	O	ASN	A	15	0.835	3.116	-9.163	1.00	0.00
ATOM 170	CB	ASN	A	15	-1.034	4.617	-10.832	1.00	0.00
ATOM 171	CG	ASN	A	15	-2.505	4.353	-11.085	1.00	0.00
ATOM 172	OD1	ASN	A	15	-3.372	5.065	-10.578	1.00	0.00
ATOM 173	ND2	ASN	A	15	-2.794	3.323	-11.872	1.00	0.00
ATOM 174	H	ASN	A	15	0.418	6.548	-10.063	1.00	0.00
ATOM 175	HA	ASN	A	15	-1.665	5.171	-8.866	1.00	0.00
ATOM 176	1HB	ASN	A	15	-0.731	5.460	-11.434	1.00	0.00
ATOM 177	2HB	ASN	A	15	-0.473	3.744	-11.134	1.00	0.00
ATOM 178	1HD2	ASN	A	15	-2.053	2.799	-12.241	1.00	0.00
ATOM 179	2HD2	ASN	A	15	-3.738	3.129	-12.052	1.00	0.00
ATOM 180	N	LEU	A	16	-0.746	3.286	-7.569	1.00	0.00
ATOM 181	CA	LEU	A	16	-0.284	2.120	-6.825	1.00	0.00
ATOM 182	C	LEU	A	16	-1.089	0.885	-7.218	1.00	0.00
ATOM 183	O	LEU	A	16	-2.318	0.891	-7.151	1.00	0.00
ATOM 184	CB	LEU	A	16	-0.406	2.370	-5.320	1.00	0.00
ATOM 185	CG	LEU	A	16	0.185	1.276	-4.430	1.00	0.00
ATOM 186	CD1	LEU	A	16	1.705	1.364	-4.413	1.00	0.00
ATOM 187	CD2	LEU	A	16	-0.373	1.380	-3.018	1.00	0.00
ATOM 188	H	LEU	A	16	-1.524	3.783	-7.242	1.00	0.00
ATOM 189	HA	LEU	A	16	0.754	1.955	-7.073	1.00	0.00

ATOM 190	1HB	LEU	A	16	0.091	3.301	-5.091	1.00	0.00
ATOM 191	2HB	LEU	A	16	-1.454	2.471	-5.079	1.00	0.00
ATOM 192	HG	LEU	A	16	-0.088	0.309	-4.829	1.00	0.00
ATOM 193	1HD1	LEU	A	16	2.121	0.516	-4.937	1.00	0.00
ATOM 194	2HD1	LEU	A	16	2.055	1.362	-3.391	1.00	0.00
ATOM 195	3HD1	LEU	A	16	2.019	2.276	-4.899	1.00	0.00
ATOM 196	1HD2	LEU	A	16	0.122	0.663	-2.381	1.00	0.00
ATOM 197	2HD2	LEU	A	16	-1.433	1.176	-3.036	1.00	0.00
ATOM 198	3HD2	LEU	A	16	-0.205	2.376	-2.638	1.00	0.00
ATOM 199	N	ASN	A	17	-0.394	-0.168	-7.633	1.00	0.00
ATOM 200	CA	ASN	A	17	-1.061	-1.399	-8.043	1.00	0.00
ATOM 201	C	ASN	A	17	-0.291	-2.635	-7.587	1.00	0.00
ATOM 202	O	ASN	A	17	0.921	-2.735	-7.778	1.00	0.00
ATOM 203	CB	ASN	A	17	-1.231	-1.427	-9.563	1.00	0.00
ATOM 204	CG	ASN	A	17	-2.064	-0.269	-10.073	1.00	0.00
ATOM 205	OD1	ASN	A	17	-3.212	-0.447	-10.483	1.00	0.00
ATOM 206	ND2	ASN	A	17	-1.490	0.929	-10.053	1.00	0.00
ATOM 207	H	ASN	A	17	0.584	-0.115	-7.673	1.00	0.00
ATOM 208	HA	ASN	A	17	-2.037	-1.411	-7.585	1.00	0.00
ATOM 209	1HB	ASN	A	17	-0.257	-1.378	-10.028	1.00	0.00
ATOM 210	2HB	ASN	A	17	-1.716	-2.349	-9.848	1.00	0.00
ATOM 211	1HD2	ASN	A	17	-0.573	0.996	-9.714	1.00	0.00
ATOM 212	2HD2	ASN	A	17	-2.007	1.695	-10.378	1.00	0.00
ATOM 213	N	PHE	A	18	-1.015	-3.582	-6.998	1.00	0.00
ATOM 214	CA	PHE	A	18	-0.423	-4.827	-6.525	1.00	0.00
ATOM 215	C	PHE	A	18	-1.513	-5.825	-6.148	1.00	0.00
ATOM 216	O	PHE	A	18	-2.256	-5.619	-5.188	1.00	0.00

ATOM 217	CB	PHE A	18	0.504	-4.575	-5.333	1.00	0.00
ATOM 218	CG	PHE A	18	-0.203	-4.100	-4.096	1.00	0.00
ATOM 219	CD1	PHE A	18	-0.410	-4.958	-3.027	1.00	0.00
ATOM 220	CD2	PHE A	18	-0.656	-2.794	-4.001	1.00	0.00
ATOM 221	CE1	PHE A	18	-1.056	-4.521	-1.886	1.00	0.00
ATOM 222	CE2	PHE A	18	-1.304	-2.352	-2.862	1.00	0.00
ATOM 223	CZ	PHE A	18	-1.503	-3.217	-1.803	1.00	0.00
ATOM 224	H	PHE A	18	-1.980	-3.443	-6.888	1.00	0.00
ATOM 225	HA	PHE A	18	0.157	-5.243	-7.337	1.00	0.00
ATOM 226	1HB	PHE A	18	1.017	-5.493	-5.087	1.00	0.00
ATOM 227	2HB	PHE A	18	1.234	-3.827	-5.608	1.00	0.00
ATOM 228	HD1	PHE A	18	-0.060	-5.978	-3.089	1.00	0.00
ATOM 229	HD2	PHE A	18	-0.500	-2.117	-4.828	1.00	0.00
ATOM 230	HE1	PHE A	18	-1.211	-5.198	-1.060	1.00	0.00
ATOM 231	HE2	PHE A	18	-1.651	-1.331	-2.800	1.00	0.00
ATOM 232	HZ	PHE A	18	-2.008	-2.874	-0.912	1.00	0.00
ATOM 233	N	THR A	19	-1.612	-6.898	-6.925	1.00	0.00
ATOM 234	CA	THR A	19	-2.622	-7.925	-6.694	1.00	0.00
ATOM 235	C	THR A	19	-2.325	-8.730	-5.433	1.00	0.00
ATOM 236	O	THR A	19	-1.183	-9.113	-5.181	1.00	0.00
ATOM 237	CB	THR A	19	-2.702	-8.860	-7.902	1.00	0.00
ATOM 238	OG1	THR A	19	-2.958	-8.129	-9.087	1.00	0.00
ATOM 239	CG2	THR A	19	-3.779	-9.915	-7.772	1.00	0.00
ATOM 240	H	THR A	19	-0.997	-6.995	-7.682	1.00	0.00
ATOM 241	HA	THR A	19	-3.574	-7.430	-6.574	1.00	0.00
ATOM 242	HB	THR A	19	-1.754	-9.368	-8.014	1.00	0.00
ATOM 243	HG1	THR A	19	-2.135	-7.984	-9.559	1.00	0.00



ATOM 244	1HG2	THR	A	19	-4.724	-9.507	-8.102	1.00	0.00
ATOM 245	2HG2	THR	A	19	-3.860	-10.221	-6.740	1.00	0.00
ATOM 246	3HG2	THR	A	19	-3.523	-10.767	-8.382	1.00	0.00
ATOM 247	N	ILE	A	20	-3.368	-8.991	-4.650	1.00	0.00
ATOM 248	CA	ILE	A	20	-3.233	-9.759	-3.417	1.00	0.00
ATOM 249	C	ILE	A	20	-3.905	-11.121	-3.549	1.00	0.00
ATOM 250	O	ILE	A	20	-5.130	-11.214	-3.634	1.00	0.00
ATOM 251	CB	ILE	A	20	-3.848	-9.016	-2.217	1.00	0.00
ATOM 252	CG1	ILE	A	20	-3.375	-7.562	-2.188	1.00	0.00
ATOM 253	CG2	ILE	A	20	-3.488	-9.720	-0.918	1.00	0.00
ATOM 254	CD1	ILE	A	20	-4.227	-6.667	-1.314	1.00	0.00
ATOM 255	H	ILE	A	20	-4.253	-8.662	-4.912	1.00	0.00
ATOM 256	HA	ILE	A	20	-2.179	-9.903	-3.227	1.00	0.00
ATOM 257	HB	ILE	A	20	-4.922	-9.035	-2.321	1.00	0.00
ATOM 258	1HG1	ILE	A	20	-2.364	-7.526	-1.812	1.00	0.00
ATOM 259	2HG1	ILE	A	20	-3.395	-7.163	-3.192	1.00	0.00
ATOM 260	1HG2	ILE	A	20	-2.522	-10.193	-1.021	1.00	0.00
ATOM 261	2HG2	ILE	A	20	-4.234	-10.469	-0.696	1.00	0.00
ATOM 262	3HG2	ILE	A	20	-3.452	-8.999	-0.115	1.00	0.00
ATOM 263	1HD1	ILE	A	20	-4.385	-7.143	-0.358	1.00	0.00
ATOM 264	2HD1	ILE	A	20	-5.180	-6.497	-1.794	1.00	0.00
ATOM 265	3HD1	ILE	A	20	-3.725	-5.723	-1.167	1.00	0.00
ATOM 266	N	THR	A	21	-3.099	-12.177	-3.564	1.00	0.00
ATOM 267	CA	THR	A	21	-3.617	-13.534	-3.685	1.00	0.00
ATOM 268	C	THR	A	21	-4.339	-13.962	-2.409	1.00	0.00
ATOM 269	O	THR	A	21	-5.212	-14.829	-2.440	1.00	0.00
ATOM 270	CB	THR	A	21	-2.481	-14.509	-3.994	1.00	0.00

ATOM 271	OG1	THR	A	21	-1.655	-14.693	-2.858	1.00	0.00
ATOM 272	CG2	THR	A	21	-1.597	-14.054	-5.135	1.00	0.00
ATOM 273	H	THR	A	21	-2.130	-12.039	-3.493	1.00	0.00
ATOM 274	HA	THR	A	21	-4.322	-13.546	-4.503	1.00	0.00
ATOM 275	HB	THR	A	21	-2.905	-15.465	-4.265	1.00	0.00
ATOM 276	HG1	THR	A	21	-1.372	-15.609	-2.813	1.00	0.00
ATOM 277	1HG2	THR	A	21	-0.929	-14.856	-5.415	1.00	0.00
ATOM 278	2HG2	THR	A	21	-1.019	-13.197	-4.823	1.00	0.00
ATOM 279	3HG2	THR	A	21	-2.211	-13.786	-5.982	1.00	0.00
ATOM 280	N	ASN	A	22	-3.967	-13.350	-1.288	1.00	0.00
ATOM 281	CA	ASN	A	22	-4.579	-13.670	-0.002	1.00	0.00
ATOM 282	C	ASN	A	22	-6.023	-13.178	0.066	1.00	0.00
ATOM 283	O	ASN	A	22	-6.800	-13.629	0.909	1.00	0.00
ATOM 284	CB	ASN	A	22	-3.766	-13.053	1.138	1.00	0.00
ATOM 285	CG	ASN	A	22	-4.051	-13.712	2.473	1.00	0.00
ATOM 286	OD1	ASN	A	22	-3.743	-14.887	2.678	1.00	0.00
ATOM 287	ND2	ASN	A	22	-4.640	-12.956	3.392	1.00	0.00
ATOM 288	H	ASN	A	22	-3.265	-12.669	-1.325	1.00	0.00
ATOM 289	HA	ASN	A	22	-4.573	-14.744	0.107	1.00	0.00
ATOM 290	1HB	ASN	A	22	-2.714	-13.162	0.921	1.00	0.00
ATOM 291	2HB	ASN	A	22	-4.007	-12.003	1.216	1.00	0.00
ATOM 292	1HD2	ASN	A	22	-4.856	-12.029	3.161	1.00	0.00
ATOM 293	2HD2	ASN	A	22	-4.836	-13.357	4.265	1.00	0.00
ATOM 294	N	LEU	A	23	-6.380	-12.250	-0.818	1.00	0.00
ATOM 295	CA	LEU	A	23	-7.731	-11.702	-0.845	1.00	0.00
ATOM 296	C	LEU	A	23	-8.567	-12.358	-1.945	1.00	0.00
ATOM 297	O	LEU	A	23	-8.466	-11.988	-3.115	1.00	0.00

ATOM 298	CB	LEU	A	23	-7.683	-10.188	-1.063	1.00	0.00
ATOM 299	CG	LEU	A	23	-8.906	-9.420	-0.558	1.00	0.00
ATOM 300	CD1	LEU	A	23	-10.175	-9.946	-1.211	1.00	0.00
ATOM 301	CD2	LEU	A	23	-9.005	-9.513	0.958	1.00	0.00
ATOM 302	H	LEU	A	23	-5.718	-11.924	-1.463	1.00	0.00
ATOM 303	HA	LEU	A	23	-8.189	-11.904	0.110	1.00	0.00
ATOM 304	1HB	LEU	A	23	-6.808	-9.802	-0.560	1.00	0.00
ATOM 305	2HB	LEU	A	23	-7.581	-10.000	-2.121	1.00	0.00
ATOM 306	HG	LEU	A	23	-8.803	-8.378	-0.824	1.00	0.00
ATOM 307	1HD1	LEU	A	23	-10.909	-9.156	-1.261	1.00	0.00
ATOM 308	2HD1	LEU	A	23	-10.566	-10.766	-0.627	1.00	0.00
ATOM 309	3HD1	LEU	A	23	-9.949	-10.292	-2.209	1.00	0.00
ATOM 310	1HD2	LEU	A	23	-10.036	-9.662	1.244	1.00	0.00
ATOM 311	2HD2	LEU	A	23	-8.639	-8.597	1.399	1.00	0.00
ATOM 312	3HD2	LEU	A	23	-8.411	-10.344	1.309	1.00	0.00
ATOM 313	N	PRO	A	24	-9.411	-13.343	-1.584	1.00	0.00
ATOM 314	CA	PRO	A	24	-10.264	-14.044	-2.548	1.00	0.00
ATOM 315	C	PRO	A	24	-11.413	-13.173	-3.045	1.00	0.00
ATOM 316	O	PRO	A	24	-12.203	-12.660	-2.252	1.00	0.00
ATOM 317	CB	PRO	A	24	-10.802	-15.230	-1.748	1.00	0.00
ATOM 318	CG	PRO	A	24	-10.787	-14.765	-0.333	1.00	0.00
ATOM 319	CD	PRO	A	24	-9.599	-13.850	-0.209	1.00	0.00
ATOM 320	HA	PRO	A	24	-9.695	-14.403	-3.393	1.00	0.00
ATOM 321	1HB	PRO	A	24	-11.803	-15.466	-2.077	1.00	0.00
ATOM 322	2HB	PRO	A	24	-10.158	-16.085	-1.888	1.00	0.00
ATOM 323	1HG	PRO	A	24	-11.699	-14.228	-0.114	1.00	0.00
ATOM 324	2HG	PRO	A	24	-10.680	-15.610	0.331	1.00	0.00

ATOM 325	1HD	PRO A	24	-9.815	-13.042	0.473	1.00	0.00
ATOM 326	2HD	PRO A	24	-8.732	-14.402	0.119	1.00	0.00
ATOM 327	N	TYR A	25	-11.501	-13.010	-4.361	1.00	0.00
ATOM 328	CA	TYR A	25	-12.555	-12.200	-4.962	1.00	0.00
ATOM 329	C	TYR A	25	-13.877	-12.960	-4.985	1.00	0.00
ATOM 330	O	TYR A	25	-14.151	-13.720	-5.914	1.00	0.00
ATOM 331	CB	TYR A	25	-12.163	-11.789	-6.383	1.00	0.00
ATOM 332	CG	TYR A	25	-12.777	-10.481	-6.826	1.00	0.00
ATOM 333	CD1	TYR A	25	-14.144	-10.258	-6.711	1.00	0.00
ATOM 334	CD2	TYR A	25	-11.990	-9.468	-7.359	1.00	0.00
ATOM 335	CE1	TYR A	25	-14.708	-9.063	-7.115	1.00	0.00
ATOM 336	CE2	TYR A	25	-12.547	-8.269	-7.765	1.00	0.00
ATOM 337	CZ	TYR A	25	-13.906	-8.072	-7.641	1.00	0.00
ATOM 338	OH	TYR A	25	-14.465	-6.882	-8.044	1.00	0.00
ATOM 339	H	TYR A	25	-10.841	-13.444	-4.941	1.00	0.00
ATOM 340	HA	TYR A	25	-12.674	-11.311	-4.360	1.00	0.00
ATOM 341	1HB	TYR A	25	-11.090	-11.686	-6.438	1.00	0.00
ATOM 342	2HB	TYR A	25	-12.482	-12.557	-7.073	1.00	0.00
ATOM 343	HD1	TYR A	25	-14.769	-11.036	-6.300	1.00	0.00
ATOM 344	HD2	TYR A	25	-10.926	-9.625	-7.455	1.00	0.00
ATOM 345	HE1	TYR A	25	-15.773	-8.909	-7.018	1.00	0.00
ATOM 346	HE2	TYR A	25	-11.919	-7.494	-8.177	1.00	0.00
ATOM 347	HH	TYR A	25	-14.177	-6.679	-8.937	1.00	0.00
ATOM 348	N	SER A	26	-14.693	-12.748	-3.958	1.00	0.00
ATOM 349	CA	SER A	26	-15.988	-13.413	-3.861	1.00	0.00
ATOM 350	C	SER A	26	-17.094	-12.534	-4.437	1.00	0.00
ATOM 351	O	SER A	26	-16.830	-11.461	-4.977	1.00	0.00

ATOM 352	CB	SER A	26	-16.299	-13.758	-2.403	1.00	0.00
ATOM 353	OG	SER A	26	-15.914	-15.088	-2.101	1.00	0.00
ATOM 354	H	SER A	26	-14.419	-12.130	-3.249	1.00	0.00
ATOM 355	HA	SER A	26	-15.934	-14.325	-4.435	1.00	0.00
ATOM 356	1HB	SER A	26	-15.760	-13.085	-1.753	1.00	0.00
ATOM 357	2HB	SER A	26	-17.360	-13.655	-2.230	1.00	0.00
ATOM 358	HG	SER A	26	-15.392	-15.096	-1.296	1.00	0.00
ATOM 359	N	GLN A	27	-18.334	-12.997	-4.317	1.00	0.00
ATOM 360	CA	GLN A	27	-19.480	-12.254	-4.826	1.00	0.00
ATOM 361	C	GLN A	27	-19.715	-10.988	-4.009	1.00	0.00
ATOM 362	O	GLN A	27	-20.143	-9.963	-4.542	1.00	0.00
ATOM 363	CB	GLN A	27	-20.734	-13.130	-4.802	1.00	0.00
ATOM 364	CG	GLN A	27	-21.036	-13.723	-3.434	1.00	0.00
ATOM 365	CD	GLN A	27	-22.312	-13.170	-2.828	1.00	0.00
ATOM 366	OE1	GLN A	27	-22.275	-12.280	-1.980	1.00	0.00
ATOM 367	NE2	GLN A	27	-23.450	-13.698	-3.263	1.00	0.00
ATOM 368	H	GLN A	27	-18.481	-13.861	-3.876	1.00	0.00
ATOM 369	HA	GLN A	27	-19.267	-11.974	-5.846	1.00	0.00
ATOM 370	1HB	GLN A	27	-21.580	-12.535	-5.109	1.00	0.00
ATOM 371	2HB	GLN A	27	-20.604	-13.942	-5.501	1.00	0.00
ATOM 372	1HG	GLN A	27	-21.138	-14.793	-3.534	1.00	0.00
ATOM 373	2HG	GLN A	27	-20.214	-13.501	-2.770	1.00	0.00
ATOM 374	1HE2	GLN A	27	-23.403	-14.405	-3.940	1.00	0.00
ATOM 375	2HE2	GLN A	27	-24.290	-13.361	-2.889	1.00	0.00
ATOM 376	N	ASP A	28	-19.431	-11.063	-2.713	1.00	0.00
ATOM 377	CA	ASP A	28	-19.612	-9.922	-1.823	1.00	0.00
ATOM 378	C	ASP A	28	-18.704	-8.767	-2.233	1.00	0.00

ATOM 379	O	ASP A	28	-19.104	-7.604	-2.186	1.00	0.00
ATOM 380	CB	ASP A	28	-19.324	-10.325	-0.376	1.00	0.00
ATOM 381	CG	ASP A	28	-20.031	-11.606	0.018	1.00	0.00
ATOM 382	OD1	ASP A	28	-21.154	-11.523	0.559	1.00	0.00
ATOM 383	OD2	ASP A	28	-19.462	-12.695	-0.214	1.00	0.00
ATOM 384	H	ASP A	28	-19.092	-11.907	-2.346	1.00	0.00
ATOM 385	HA	ASP A	28	-20.639	-9.601	-1.901	1.00	0.00
ATOM 386	1HB	ASP A	28	-18.261	-10.471	-0.254	1.00	0.00
ATOM 387	2HB	ASP A	28	-19.653	-9.536	0.283	1.00	0.00
ATOM 388	N	ILE A	29	-17.481	-9.096	-2.635	1.00	0.00
ATOM 389	CA	ILE A	29	-16.516	-8.087	-3.055	1.00	0.00
ATOM 390	C	ILE A	29	-16.950	-7.407	-4.354	1.00	0.00
ATOM 391	O	ILE A	29	-16.415	-6.362	-4.723	1.00	0.00
ATOM 392	CB	ILE A	29	-15.114	-8.696	-3.252	1.00	0.00
ATOM 393	CG1	ILE A	29	-14.715	-9.521	-2.027	1.00	0.00
ATOM 394	CG2	ILE A	29	-14.092	-7.600	-3.513	1.00	0.00
ATOM 395	CD1	ILE A	29	-14.755	-8.740	-0.731	1.00	0.00
ATOM 396	H	ILE A	29	-17.222	-10.041	-2.653	1.00	0.00
ATOM 397	HA	ILE A	29	-16.455	-7.343	-2.276	1.00	0.00
ATOM 398	HB	ILE A	29	-15.144	-9.341	-4.118	1.00	0.00
ATOM 399	1HG1	ILE A	29	-15.391	-10.358	-1.928	1.00	0.00
ATOM 400	2HG1	ILE A	29	-13.710	-9.892	-2.162	1.00	0.00
ATOM 401	1HG2	ILE A	29	-14.260	-7.177	-4.492	1.00	0.00
ATOM 402	2HG2	ILE A	29	-13.097	-8.018	-3.467	1.00	0.00
ATOM 403	3HG2	ILE A	29	-14.192	-6.828	-2.765	1.00	0.00
ATOM 404	1HD1	ILE A	29	-15.779	-8.645	-0.399	1.00	0.00
ATOM 405	2HD1	ILE A	29	-14.335	-7.758	-0.890	1.00	0.00

ATOM 406	3HD1	ILE	A	29	-14.179	-9.261	0.021	1.00	0.00
ATOM 407	N	ALA	A	30	-17.921	-8.003	-5.042	1.00	0.00
ATOM 408	CA	ALA	A	30	-18.418	-7.448	-6.295	1.00	0.00
ATOM 409	C	ALA	A	30	-19.671	-6.608	-6.066	1.00	0.00
ATOM 410	O	ALA	A	30	-20.538	-6.519	-6.935	1.00	0.00
ATOM 411	CB	ALA	A	30	-18.703	-8.565	-7.289	1.00	0.00
ATOM 412	H	ALA	A	30	-18.311	-8.834	-4.700	1.00	0.00
ATOM 413	HA	ALA	A	30	-17.646	-6.818	-6.711	1.00	0.00
ATOM 414	1HB	ALA	A	30	-19.765	-8.764	-7.312	1.00	0.00
ATOM 415	2HB	ALA	A	30	-18.176	-9.458	-6.988	1.00	0.00
ATOM 416	3HB	ALA	A	30	-18.373	-8.265	-8.272	1.00	0.00
ATOM 417	N	GLN	A	31	-19.761	-5.994	-4.890	1.00	0.00
ATOM 418	CA	GLN	A	31	-20.908	-5.162	-4.546	1.00	0.00
ATOM 419	C	GLN	A	31	-20.643	-4.376	-3.262	1.00	0.00
ATOM 420	O	GLN	A	31	-20.787	-4.907	-2.161	1.00	0.00
ATOM 421	CB	GLN	A	31	-22.159	-6.028	-4.379	1.00	0.00
ATOM 422	CG	GLN	A	31	-22.997	-6.135	-5.643	1.00	0.00
ATOM 423	CD	GLN	A	31	-24.400	-5.586	-5.464	1.00	0.00
ATOM 424	OE1	GLN	A	31	-24.675	-4.850	-4.517	1.00	0.00
ATOM 425	NE2	GLN	A	31	-25.296	-5.944	-6.377	1.00	0.00
ATOM 426	H	GLN	A	31	-19.038	-6.104	-4.238	1.00	0.00
ATOM 427	HA	GLN	A	31	-21.068	-4.468	-5.356	1.00	0.00
ATOM 428	1HB	GLN	A	31	-21.858	-7.023	-4.088	1.00	0.00
ATOM 429	2HB	GLN	A	31	-22.775	-5.605	-3.599	1.00	0.00
ATOM 430	1HG	GLN	A	31	-22.509	-5.581	-6.431	1.00	0.00
ATOM 431	2HG	GLN	A	31	-23.066	-7.175	-5.927	1.00	0.00
ATOM 432	1HE2	GLN	A	31	-25.007	-6.533	-7.105	1.00	0.00

ATOM 433	2HE2	GLN	A	31	-26.211	-5.604	-6.286	1.00	0.00
ATOM 434	N	PRO	A	32	-20.247	-3.096	-3.386	1.00	0.00
ATOM 435	CA	PRO	A	32	-19.960	-2.243	-2.227	1.00	0.00
ATOM 436	C	PRO	A	32	-21.073	-2.282	-1.183	1.00	0.00
ATOM 437	O	PRO	A	32	-20.835	-2.043	0.001	1.00	0.00
ATOM 438	CB	PRO	A	32	-19.848	-0.845	-2.836	1.00	0.00
ATOM 439	CG	PRO	A	32	-19.413	-1.080	-4.241	1.00	0.00
ATOM 440	CD	PRO	A	32	-20.046	-2.379	-4.661	1.00	0.00
ATOM 441	HA	PRO	A	32	-19.024	-2.511	-1.761	1.00	0.00
ATOM 442	1HB	PRO	A	32	-20.810	-0.353	-2.796	1.00	0.00
ATOM 443	2HB	PRO	A	32	-19.118	-0.268	-2.288	1.00	0.00
ATOM 444	1HG	PRO	A	32	-19.758	-0.274	-4.872	1.00	0.00
ATOM 445	2HG	PRO	A	32	-18.337	-1.157	-4.284	1.00	0.00
ATOM 446	1HD	PRO	A	32	-20.989	-2.197	-5.152	1.00	0.00
ATOM 447	2HD	PRO	A	32	-19.381	-2.929	-5.310	1.00	0.00
ATOM 448	N	SER	A	33	-22.288	-2.586	-1.629	1.00	0.00
ATOM 449	CA	SER	A	33	-23.435	-2.658	-0.731	1.00	0.00
ATOM 450	C	SER	A	33	-23.191	-3.667	0.388	1.00	0.00
ATOM 451	O	SER	A	33	-23.722	-3.527	1.489	1.00	0.00
ATOM 452	CB	SER	A	33	-24.695	-3.037	-1.510	1.00	0.00
ATOM 453	OG	SER	A	33	-25.842	-2.994	-0.678	1.00	0.00
ATOM 454	H	SER	A	33	-22.416	-2.767	-2.583	1.00	0.00
ATOM 455	HA	SER	A	33	-23.574	-1.680	-0.293	1.00	0.00
ATOM 456	1HB	SER	A	33	-24.834	-2.345	-2.326	1.00	0.00
ATOM 457	2HB	SER	A	33	-24.587	-4.038	-1.901	1.00	0.00
ATOM 458	HG	SER	A	33	-26.550	-2.531	-1.132	1.00	0.00
ATOM 459	N	THR	A	34	-22.384	-4.683	0.097	1.00	0.00



ATOM 460	CA	THR A	34	-22.070	-5.715	1.079	1.00	0.00
ATOM 461	C	THR A	34	-21.001	-5.233	2.054	1.00	0.00
ATOM 462	O	THR A	34	-20.347	-4.217	1.820	1.00	0.00
ATOM 463	CB	THR A	34	-21.600	-6.990	0.378	1.00	0.00
ATOM 464	OG1	THR A	34	-20.280	-6.836	-0.114	1.00	0.00
ATOM 465	CG2	THR A	34	-22.480	-7.393	-0.787	1.00	0.00
ATOM 466	H	THR A	34	-21.991	-4.740	-0.798	1.00	0.00
ATOM 467	HA	THR A	34	-22.972	-5.931	1.632	1.00	0.00
ATOM 468	HB	THR A	34	-21.604	-7.803	1.090	1.00	0.00
ATOM 469	HG1	THR A	34	-20.249	-6.093	-0.720	1.00	0.00
ATOM 470	1HG2	THR A	34	-22.808	-6.509	-1.312	1.00	0.00
ATOM 471	2HG2	THR A	34	-23.339	-7.934	-0.419	1.00	0.00
ATOM 472	3HG2	THR A	34	-21.919	-8.024	-1.460	1.00	0.00
ATOM 473	N	THR A	35	-20.828	-5.968	3.147	1.00	0.00
ATOM 474	CA	THR A	35	-19.839	-5.616	4.159	1.00	0.00
ATOM 475	C	THR A	35	-18.453	-6.124	3.771	1.00	0.00
ATOM 476	O	THR A	35	-17.440	-5.534	4.144	1.00	0.00
ATOM 477	CB	THR A	35	-20.242	-6.192	5.518	1.00	0.00
ATOM 478	OG1	THR A	35	-21.598	-5.899	5.804	1.00	0.00
ATOM 479	CG2	THR A	35	-19.406	-5.664	6.663	1.00	0.00
ATOM 480	H	THR A	35	-21.381	-6.767	3.277	1.00	0.00
ATOM 481	HA	THR A	35	-19.807	-4.540	4.231	1.00	0.00
ATOM 482	HB	THR A	35	-20.125	-7.267	5.490	1.00	0.00
ATOM 483	HG1	THR A	35	-21.919	-6.499	6.482	1.00	0.00
ATOM 484	1HG2	THR A	35	-18.437	-6.143	6.652	1.00	0.00
ATOM 485	2HG2	THR A	35	-19.902	-5.876	7.599	1.00	0.00
ATOM 486	3HG2	THR A	35	-19.281	-4.597	6.556	1.00	0.00

ATOM 487	N	LYS A	36	-18.417	-7.223	3.024	1.00	0.00
ATOM 488	CA	LYS A	36	-17.155	-7.810	2.588	1.00	0.00
ATOM 489	C	LYS A	36	-16.328	-6.805	1.791	1.00	0.00
ATOM 490	O	LYS A	36	-15.098	-6.825	1.834	1.00	0.00
ATOM 491	CB	LYS A	36	-17.413	-9.057	1.741	1.00	0.00
ATOM 492	CG	LYS A	36	-16.219	-9.995	1.657	1.00	0.00
ATOM 493	CD	LYS A	36	-16.227	-11.009	2.789	1.00	0.00
ATOM 494	CE	LYS A	36	-15.562	-12.312	2.374	1.00	0.00
ATOM 495	NZ	LYS A	36	-16.392	-13.075	1.401	1.00	0.00
ATOM 496	H	LYS A	36	-19.258	-7.650	2.759	1.00	0.00
ATOM 497	HA	LYS A	36	-16.600	-8.094	3.470	1.00	0.00
ATOM 498	1HB	LYS A	36	-18.242	-9.603	2.168	1.00	0.00
ATOM 499	2HB	LYS A	36	-17.674	-8.751	0.739	1.00	0.00
ATOM 500	1HG	LYS A	36	-16.253	-10.521	0.715	1.00	0.00
ATOM 501	2HG	LYS A	36	-15.312	-9.412	1.713	1.00	0.00
ATOM 502	1HD	LYS A	36	-15.692	-10.597	3.632	1.00	0.00
ATOM 503	2HD	LYS A	36	-17.249	-11.211	3.072	1.00	0.00
ATOM 504	1HE	LYS A	36	-14.608	-12.087	1.920	1.00	0.00
ATOM 505	2HE	LYS A	36	-15.406	-12.919	3.254	1.00	0.00
ATOM 506	1HZ	LYS A	36	-16.874	-12.420	0.752	1.00	0.00
ATOM 507	2HZ	LYS A	36	-17.108	-13.636	1.905	1.00	0.00
ATOM 508	3HZ	LYS A	36	-15.792	-13.718	0.846	1.00	0.00
ATOM 509	N	TYR A	37	-17.014	-5.927	1.065	1.00	0.00
ATOM 510	CA	TYR A	37	-16.342	-4.914	0.259	1.00	0.00
ATOM 511	C	TYR A	37	-15.828	-3.775	1.133	1.00	0.00
ATOM 512	O	TYR A	37	-14.718	-3.282	0.938	1.00	0.00
ATOM 513	CB	TYR A	37	-17.294	-4.367	-0.805	1.00	0.00

ATOM 514	CG	TYR A	37	-16.664	-3.329	-1.708	1.00	0.00
ATOM 515	CD1	TYR A	37	-16.104	-3.688	-2.927	1.00	0.00
ATOM 516	CD2	TYR A	37	-16.631	-1.990	-1.340	1.00	0.00
ATOM 517	CE1	TYR A	37	-15.528	-2.743	-3.755	1.00	0.00
ATOM 518	CE2	TYR A	37	-16.057	-1.038	-2.162	1.00	0.00
ATOM 519	CZ	TYR A	37	-15.507	-1.420	-3.368	1.00	0.00
ATOM 520	OH	TYR A	37	-14.936	-0.476	-4.189	1.00	0.00
ATOM 521	H	TYR A	37	-17.993	-5.961	1.072	1.00	0.00
ATOM 522	HA	TYR A	37	-15.502	-5.383	-0.230	1.00	0.00
ATOM 523	1HB	TYR A	37	-17.635	-5.181	-1.427	1.00	0.00
ATOM 524	2HB	TYR A	37	-18.144	-3.913	-0.318	1.00	0.00
ATOM 525	HD1	TYR A	37	-16.123	-4.726	-3.227	1.00	0.00
ATOM 526	HD2	TYR A	37	-17.061	-1.694	-0.395	1.00	0.00
ATOM 527	HE1	TYR A	37	-15.099	-3.043	-4.699	1.00	0.00
ATOM 528	HE2	TYR A	37	-16.041	-0.001	-1.858	1.00	0.00
ATOM 529	HH	TYR A	37	-15.626	0.031	-4.624	1.00	0.00
ATOM 530	N	GLN A	38	-16.644	-3.361	2.096	1.00	0.00
ATOM 531	CA	GLN A	38	-16.272	-2.278	3.000	1.00	0.00
ATOM 532	C	GLN A	38	-15.190	-2.729	3.976	1.00	0.00
ATOM 533	O	GLN A	38	-14.310	-1.952	4.346	1.00	0.00
ATOM 534	CB	GLN A	38	-17.497	-1.784	3.770	1.00	0.00
ATOM 535	CG	GLN A	38	-18.332	-0.774	3.000	1.00	0.00
ATOM 536	CD	GLN A	38	-19.780	-0.750	3.450	1.00	0.00
ATOM 537	OE1	GLN A	38	-20.144	-1.382	4.442	1.00	0.00
ATOM 538	NE2	GLN A	38	-20.615	-0.020	2.720	1.00	0.00
ATOM 539	H	GLN A	38	-17.518	-3.792	2.202	1.00	0.00
ATOM 540	HA	GLN A	38	-15.883	-1.467	2.401	1.00	0.00

ATOM 541	1HB	GLN A	38	-18.124	-2.630	4.007	1.00	0.00
ATOM 542	2HB	GLN A	38	-17.169	-1.321	4.689	1.00	0.00
ATOM 543	1HG	GLN A	38	-17.911	0.210	3.147	1.00	0.00
ATOM 544	2HG	GLN A	38	-18.300	-1.025	1.950	1.00	0.00
ATOM 545	1HE2	GLN A	38	-20.255	0.457	1.943	1.00	0.00
ATOM 546	2HE2	GLN A	38	-21.557	0.012	2.988	1.00	0.00
ATOM 547	N	GLN A	39	-15.263	-3.989	4.391	1.00	0.00
ATOM 548	CA	GLN A	39	-14.290	-4.544	5.326	1.00	0.00
ATOM 549	C	GLN A	39	-12.926	-4.704	4.662	1.00	0.00
ATOM 550	O	GLN A	39	-11.907	-4.275	5.205	1.00	0.00
ATOM 551	CB	GLN A	39	-14.776	-5.894	5.856	1.00	0.00
ATOM 552	CG	GLN A	39	-15.455	-5.805	7.214	1.00	0.00
ATOM 553	CD	GLN A	39	-15.148	-6.996	8.099	1.00	0.00
ATOM 554	OE1	GLN A	39	-14.740	-8.053	7.617	1.00	0.00
ATOM 555	NE2	GLN A	39	-15.343	-6.832	9.402	1.00	0.00
ATOM 556	H	GLN A	39	-15.988	-4.560	4.060	1.00	0.00
ATOM 557	HA	GLN A	39	-14.197	-3.855	6.152	1.00	0.00
ATOM 558	1HB	GLN A	39	-15.481	-6.312	5.153	1.00	0.00
ATOM 559	2HB	GLN A	39	-13.931	-6.560	5.945	1.00	0.00
ATOM 560	1HG	GLN A	39	-15.116	-4.909	7.713	1.00	0.00
ATOM 561	2HG	GLN A	39	-16.524	-5.750	7.065	1.00	0.00
ATOM 562	1HE2	GLN A	39	-15.670	-5.962	9.714	1.00	0.00
ATOM 563	2HE2	GLN A	39	-15.152	-7.586	9.998	1.00	0.00
ATOM 564	N	THR A	40	-12.913	-5.323	3.487	1.00	0.00
ATOM 565	CA	THR A	40	-11.674	-5.541	2.750	1.00	0.00
ATOM 566	C	THR A	40	-11.091	-4.219	2.260	1.00	0.00
ATOM 567	O	THR A	40	-9.875	-4.070	2.144	1.00	0.00

ATOM 568	CB	THR A	40	-11.918	-6.474	1.564	1.00	0.00
ATOM 569	OG1	THR A	40	-12.481	-7.700	1.998	1.00	0.00
ATOM 570	CG2	THR A	40	-10.659	-6.798	0.788	1.00	0.00
ATOM 571	H	THR A	40	-13.757	-5.643	3.105	1.00	0.00
ATOM 572	HA	THR A	40	-10.967	-6.005	3.422	1.00	0.00
ATOM 573	HB	THR A	40	-12.613	-6.003	0.885	1.00	0.00
ATOM 574	HG1	THR A	40	-12.807	-8.189	1.239	1.00	0.00
ATOM 575	1HG2	THR A	40	-9.818	-6.833	1.465	1.00	0.00
ATOM 576	2HG2	THR A	40	-10.489	-6.034	0.043	1.00	0.00
ATOM 577	3HG2	THR A	40	-10.772	-7.756	0.302	1.00	0.00
ATOM 578	N	LYS A	41	-11.967	-3.260	1.975	1.00	0.00
ATOM 579	CA	LYS A	41	-11.539	-1.951	1.497	1.00	0.00
ATOM 580	C	LYS A	41	-10.914	-1.137	2.625	1.00	0.00
ATOM 581	O	LYS A	41	-9.992	-0.352	2.402	1.00	0.00
ATOM 582	CB	LYS A	41	-12.726	-1.190	0.901	1.00	0.00
ATOM 583	CG	LYS A	41	-12.337	0.117	0.226	1.00	0.00
ATOM 584	CD	LYS A	41	-13.507	0.722	-0.535	1.00	0.00
ATOM 585	CE	LYS A	41	-13.120	1.081	-1.961	1.00	0.00
ATOM 586	NZ	LYS A	41	-12.573	-0.091	-2.703	1.00	0.00
ATOM 587	H	LYS A	41	-12.924	-3.439	2.086	1.00	0.00
ATOM 588	HA	LYS A	41	-10.798	-2.104	0.727	1.00	0.00
ATOM 589	1HB	LYS A	41	-13.209	-1.818	0.168	1.00	0.00
ATOM 590	2HB	LYS A	41	-13.428	-0.967	1.690	1.00	0.00
ATOM 591	1HG	LYS A	41	-12.012	0.816	0.981	1.00	0.00
ATOM 592	2HG	LYS A	41	-11.528	-0.074	-0.464	1.00	0.00
ATOM 593	1HD	LYS A	41	-14.316	0.007	-0.564	1.00	0.00
ATOM 594	2HD	LYS A	41	-13.832	1.616	-0.025	1.00	0.00

ATOM 595	1HE	LYS	A	41	-13.995	1.444	-2.478	1.00	0.00
ATOM 596	2HE	LYS	A	41	-12.371	1.858	-1.933	1.00	0.00
ATOM 597	1HZ	LYS	A	41	-13.237	-0.384	-3.448	1.00	0.00
ATOM 598	2HZ	LYS	A	41	-12.425	-0.890	-2.054	1.00	0.00
ATOM 599	3HZ	LYS	A	41	-11.663	0.157	-3.142	1.00	0.00
ATOM 600	N	ARG	A	42	-11.420	-1.331	3.839	1.00	0.00
ATOM 601	CA	ARG	A	42	-10.912	-0.615	5.004	1.00	0.00
ATOM 602	C	ARG	A	42	-9.691	-1.319	5.587	1.00	0.00
ATOM 603	O	ARG	A	42	-8.745	-0.673	6.036	1.00	0.00
ATOM 604	CB	ARG	A	42	-12.003	-0.494	6.070	1.00	0.00
ATOM 605	CG	ARG	A	42	-11.623	0.417	7.227	1.00	0.00
ATOM 606	CD	ARG	A	42	-12.486	1.671	7.265	1.00	0.00
ATOM 607	NE	ARG	A	42	-11.732	2.865	6.889	1.00	0.00
ATOM 608	CZ	ARG	A	42	-12.148	4.108	7.122	1.00	0.00
ATOM 609	NH1	ARG	A	42	-13.309	4.323	7.729	1.00	0.00
ATOM 610	NH2	ARG	A	42	-11.401	5.138	6.749	1.00	0.00
ATOM 611	H	ARG	A	42	-12.154	-1.970	3.954	1.00	0.00
ATOM 612	HA	ARG	A	42	-10.623	0.375	4.684	1.00	0.00
ATOM 613	1HB	ARG	A	42	-12.899	-0.106	5.609	1.00	0.00
ATOM 614	2HB	ARG	A	42	-12.210	-1.477	6.468	1.00	0.00
ATOM 615	1HG	ARG	A	42	-11.753	-0.122	8.154	1.00	0.00
ATOM 616	2HG	ARG	A	42	-10.588	0.707	7.120	1.00	0.00
ATOM 617	1HD	ARG	A	42	-13.311	1.547	6.579	1.00	0.00
ATOM 618	2HD	ARG	A	42	-12.868	1.799	8.267	1.00	0.00
ATOM 619	HE	ARG	A	42	-10.871	2.734	6.440	1.00	0.00
ATOM 620	1HH1	ARG	A	42	-13.877	3.551	8.012	1.00	0.00
ATOM 621	2HH1	ARG	A	42	-13.616	5.259	7.900	1.00	0.00

ATOM 622	1HH2	ARG	A	42	-10.525	4.980	6.293	1.00	0.00
ATOM 623	2HH2	ARG	A	42	-11.712	6.071	6.924	1.00	0.00
ATOM 624	N	SER	A	43	-9.720	-2.648	5.578	1.00	0.00
ATOM 625	CA	SER	A	43	-8.616	-3.440	6.108	1.00	0.00
ATOM 626	C	SER	A	43	-7.320	-3.139	5.362	1.00	0.00
ATOM 627	O	SER	A	43	-6.297	-2.830	5.974	1.00	0.00
ATOM 628	CB	SER	A	43	-8.940	-4.932	6.010	1.00	0.00
ATOM 629	OG	SER	A	43	-7.834	-5.722	6.415	1.00	0.00
ATOM 630	H	SER	A	43	-10.503	-3.106	5.208	1.00	0.00
ATOM 631	HA	SER	A	43	-8.488	-3.178	7.147	1.00	0.00
ATOM 632	1HB	SER	A	43	-9.781	-5.160	6.648	1.00	0.00
ATOM 633	2HB	SER	A	43	-9.187	-5.178	4.987	1.00	0.00
ATOM 634	HG	SER	A	43	-7.498	-5.396	7.252	1.00	0.00
ATOM 635	N	ILE	A	44	-7.370	-3.230	4.037	1.00	0.00
ATOM 636	CA	ILE	A	44	-6.198	-2.966	3.210	1.00	0.00
ATOM 637	C	ILE	A	44	-5.761	-1.509	3.329	1.00	0.00
ATOM 638	O	ILE	A	44	-4.578	-1.220	3.506	1.00	0.00
ATOM 639	CB	ILE	A	44	-6.469	-3.296	1.728	1.00	0.00
ATOM 640	CG1	ILE	A	44	-6.984	-4.729	1.586	1.00	0.00
ATOM 641	CG2	ILE	A	44	-5.208	-3.097	0.899	1.00	0.00
ATOM 642	CD1	ILE	A	44	-7.481	-5.059	0.196	1.00	0.00
ATOM 643	H	ILE	A	44	-8.213	-3.480	3.606	1.00	0.00
ATOM 644	HA	ILE	A	44	-5.396	-3.602	3.557	1.00	0.00
ATOM 645	HB	ILE	A	44	-7.222	-2.613	1.362	1.00	0.00
ATOM 646	1HG1	ILE	A	44	-6.185	-5.416	1.823	1.00	0.00
ATOM 647	2HG1	ILE	A	44	-7.799	-4.883	2.277	1.00	0.00
ATOM 648	1HG2	ILE	A	44	-4.340	-3.213	1.531	1.00	0.00

ATOM 649	2HG2	ILE	A	44	-5.211	-2.105	0.470	1.00	0.00
ATOM 650	3HG2	ILE	A	44	-5.179	-3.831	0.107	1.00	0.00
ATOM 651	1HD1	ILE	A	44	-6.984	-4.425	-0.524	1.00	0.00
ATOM 652	2HD1	ILE	A	44	-8.547	-4.892	0.147	1.00	0.00
ATOM 653	3HD1	ILE	A	44	-7.267	-6.093	-0.027	1.00	0.00
ATOM 654	N	GLU	A	45	-6.722	-0.597	3.232	1.00	0.00
ATOM 655	CA	GLU	A	45	-6.433	0.830	3.330	1.00	0.00
ATOM 656	C	GLU	A	45	-5.787	1.160	4.671	1.00	0.00
ATOM 657	O	GLU	A	45	-4.977	2.082	4.771	1.00	0.00
ATOM 658	CB	GLU	A	45	-7.714	1.647	3.152	1.00	0.00
ATOM 659	CG	GLU	A	45	-7.469	3.070	2.682	1.00	0.00
ATOM 660	CD	GLU	A	45	-7.415	4.061	3.828	1.00	0.00
ATOM 661	OE1	GLU	A	45	-8.369	4.090	4.634	1.00	0.00
ATOM 662	OE2	GLU	A	45	-6.419	4.810	3.918	1.00	0.00
ATOM 663	H	GLU	A	45	-7.647	-0.889	3.091	1.00	0.00
ATOM 664	HA	GLU	A	45	-5.743	1.084	2.539	1.00	0.00
ATOM 665	1HB	GLU	A	45	-8.343	1.154	2.426	1.00	0.00
ATOM 666	2HB	GLU	A	45	-8.236	1.687	4.098	1.00	0.00
ATOM 667	1HG	GLU	A	45	-6.528	3.104	2.153	1.00	0.00
ATOM 668	2HG	GLU	A	45	-8.267	3.358	2.014	1.00	0.00
ATOM 669	N	ASN	A	46	-6.150	0.400	5.699	1.00	0.00
ATOM 670	CA	ASN	A	46	-5.605	0.609	7.035	1.00	0.00
ATOM 671	C	ASN	A	46	-4.152	0.152	7.106	1.00	0.00
ATOM 672	O	ASN	A	46	-3.335	0.752	7.804	1.00	0.00
ATOM 673	CB	ASN	A	46	-6.440	-0.145	8.071	1.00	0.00
ATOM 674	CG	ASN	A	46	-6.277	0.419	9.469	1.00	0.00
ATOM 675	OD1	ASN	A	46	-5.647	1.459	9.661	1.00	0.00



ATOM 676	ND2	ASN	A	46	-6.845	-0.266	10.453	1.00	0.00
ATOM 677	H	ASN	A	46	-6.798	-0.321	5.555	1.00	0.00
ATOM 678	HA	ASN	A	46	-5.649	1.666	7.249	1.00	0.00
ATOM 679	1HB	ASN	A	46	-7.483	-0.083	7.798	1.00	0.00
ATOM 680	2HB	ASN	A	46	-6.137	-1.182	8.083	1.00	0.00
ATOM 681	1HD2	ASN	A	46	-7.332	-1.087	10.226	1.00	0.00
ATOM 682	2HD2	ASN	A	46	-6.756	0.076	11.367	1.00	0.00
ATOM 683	N	ALA	A	47	-3.836	-0.914	6.377	1.00	0.00
ATOM 684	CA	ALA	A	47	-2.482	-1.452	6.356	1.00	0.00
ATOM 685	C	ALA	A	47	-1.538	-0.532	5.590	1.00	0.00
ATOM 686	O	ALA	A	47	-0.381	-0.357	5.971	1.00	0.00
ATOM 687	CB	ALA	A	47	-2.479	-2.845	5.742	1.00	0.00
ATOM 688	H	ALA	A	47	-4.532	-1.349	5.840	1.00	0.00
ATOM 689	HA	ALA	A	47	-2.140	-1.534	7.377	1.00	0.00
ATOM 690	1HB	ALA	A	47	-3.342	-2.958	5.103	1.00	0.00
ATOM 691	2HB	ALA	A	47	-2.515	-3.585	6.529	1.00	0.00
ATOM 692	3HB	ALA	A	47	-1.580	-2.981	5.161	1.00	0.00
ATOM 693	N	LEU	A	48	-2.040	0.056	4.509	1.00	0.00
ATOM 694	CA	LEU	A	48	-1.241	0.958	3.689	1.00	0.00
ATOM 695	C	LEU	A	48	-0.915	2.239	4.451	1.00	0.00
ATOM 696	O	LEU	A	48	0.180	2.788	4.323	1.00	0.00
ATOM 697	CB	LEU	A	48	-1.983	1.297	2.394	1.00	0.00
ATOM 698	CG	LEU	A	48	-1.731	0.334	1.232	1.00	0.00
ATOM 699	CD1	LEU	A	48	-2.605	0.693	0.042	1.00	0.00
ATOM 700	CD2	LEU	A	48	-0.261	0.350	0.840	1.00	0.00
ATOM 701	H	LEU	A	48	-2.970	-0.124	4.256	1.00	0.00
ATOM 702	HA	LEU	A	48	-0.319	0.454	3.444	1.00	0.00

ATOM 703	1HB	LEU	A	48	-3.043	1.305	2.604	1.00	0.00
ATOM 704	2HB	LEU	A	48	-1.687	2.287	2.082	1.00	0.00
ATOM 705	HG	LEU	A	48	-1.985	-0.669	1.543	1.00	0.00
ATOM 706	1HD1	LEU	A	48	-3.578	1.007	0.392	1.00	0.00
ATOM 707	2HD1	LEU	A	48	-2.715	-0.169	-0.598	1.00	0.00
ATOM 708	3HD1	LEU	A	48	-2.146	1.498	-0.513	1.00	0.00
ATOM 709	1HD2	LEU	A	48	0.161	1.319	1.060	1.00	0.00
ATOM 710	2HD2	LEU	A	48	-0.168	0.149	-0.217	1.00	0.00
ATOM 711	3HD2	LEU	A	48	0.268	-0.409	1.398	1.00	0.00
ATOM 712	N	ASN	A	49	-1.872	2.708	5.246	1.00	0.00
ATOM 713	CA	ASN	A	49	-1.686	3.924	6.028	1.00	0.00
ATOM 714	C	ASN	A	49	-0.507	3.783	6.986	1.00	0.00
ATOM 715	O	ASN	A	49	0.446	4.559	6.931	1.00	0.00
ATOM 716	CB	ASN	A	49	-2.959	4.249	6.813	1.00	0.00
ATOM 717	CG	ASN	A	49	-3.159	5.740	7.000	1.00	0.00
ATOM 718	OD1	ASN	A	49	-2.380	6.402	7.686	1.00	0.00
ATOM 719	ND2	ASN	A	49	-4.208	6.277	6.388	1.00	0.00
ATOM 720	H	ASN	A	49	-2.722	2.226	5.306	1.00	0.00
ATOM 721	HA	ASN	A	49	-1.482	4.733	5.342	1.00	0.00
ATOM 722	1HB	ASN	A	49	-3.812	3.854	6.283	1.00	0.00
ATOM 723	2HB	ASN	A	49	-2.901	3.786	7.788	1.00	0.00
ATOM 724	1HD2	ASN	A	49	-4.786	5.689	5.858	1.00	0.00
ATOM 725	2HD2	ASN	A	49	-4.361	7.239	6.492	1.00	0.00
ATOM 726	N	GLN	A	50	-0.579	2.786	7.862	1.00	0.00
ATOM 727	CA	GLN	A	50	0.484	2.543	8.833	1.00	0.00
ATOM 728	C	GLN	A	50	1.810	2.266	8.131	1.00	0.00
ATOM 729	O	GLN	A	50	2.877	2.590	8.650	1.00	0.00

ATOM 730	CB	GLN A	50	0.117	1.367	9.739	1.00	0.00
ATOM 731	CG	GLN A	50	-0.167	0.080	8.982	1.00	0.00
ATOM 732	CD	GLN A	50	-0.904	-0.941	9.825	1.00	0.00
ATOM 733	OE1	GLN A	50	-2.082	-1.218	9.597	1.00	0.00
ATOM 734	NE2	GLN A	50	-0.211	-1.509	10.806	1.00	0.00
ATOM 735	H	GLN A	50	-1.364	2.201	7.858	1.00	0.00
ATOM 736	HA	GLN A	50	0.589	3.432	9.437	1.00	0.00
ATOM 737	1HB	GLN A	50	0.934	1.185	10.422	1.00	0.00
ATOM 738	2HB	GLN A	50	-0.765	1.626	10.307	1.00	0.00
ATOM 739	1HG	GLN A	50	-0.769	0.312	8.116	1.00	0.00
ATOM 740	2HG	GLN A	50	0.772	-0.347	8.662	1.00	0.00
ATOM 741	1HE2	GLN A	50	0.723	-1.239	10.929	1.00	0.00
ATOM 742	2HE2	GLN A	50	-0.663	-2.173	11.367	1.00	0.00
ATOM 743	N	LEU A	51	1.733	1.664	6.948	1.00	0.00
ATOM 744	CA	LEU A	51	2.929	1.344	6.176	1.00	0.00
ATOM 745	C	LEU A	51	3.714	2.609	5.842	1.00	0.00
ATOM 746	O	LEU A	51	4.942	2.631	5.934	1.00	0.00
ATOM 747	CB	LEU A	51	2.549	0.610	4.889	1.00	0.00
ATOM 748	CG	LEU A	51	3.701	-0.116	4.194	1.00	0.00
ATOM 749	CD1	LEU A	51	3.188	-1.336	3.446	1.00	0.00
ATOM 750	CD2	LEU A	51	4.429	0.825	3.246	1.00	0.00
ATOM 751	H	LEU A	51	0.854	1.431	6.586	1.00	0.00
ATOM 752	HA	LEU A	51	3.549	0.698	6.779	1.00	0.00
ATOM 753	1HB	LEU A	51	1.783	-0.115	5.126	1.00	0.00
ATOM 754	2HB	LEU A	51	2.137	1.329	4.197	1.00	0.00
ATOM 755	HG	LEU A	51	4.407	-0.454	4.939	1.00	0.00
ATOM 756	1HD1	LEU A	51	2.646	-1.975	4.127	1.00	0.00

ATOM 757	2HD1	LEU	A	51	4.023	-1.880	3.029	1.00	0.00
ATOM 758	3HD1	LEU	A	51	2.532	-1.019	2.648	1.00	0.00
ATOM 759	1HD2	LEU	A	51	5.253	0.304	2.783	1.00	0.00
ATOM 760	2HD2	LEU	A	51	4.806	1.673	3.800	1.00	0.00
ATOM 761	3HD2	LEU	A	51	3.745	1.169	2.485	1.00	0.00
ATOM 762	N	PHE	A	52	2.997	3.658	5.454	1.00	0.00
ATOM 763	CA	PHE	A	52	3.627	4.927	5.107	1.00	0.00
ATOM 764	C	PHE	A	52	4.226	5.591	6.342	1.00	0.00
ATOM 765	O	PHE	A	52	5.308	6.174	6.283	1.00	0.00
ATOM 766	CB	PHE	A	52	2.610	5.865	4.453	1.00	0.00
ATOM 767	CG	PHE	A	52	1.733	5.189	3.437	1.00	0.00
ATOM 768	CD1	PHE	A	52	2.281	4.364	2.469	1.00	0.00
ATOM 769	CD2	PHE	A	52	0.361	5.381	3.451	1.00	0.00
ATOM 770	CE1	PHE	A	52	1.477	3.742	1.533	1.00	0.00
ATOM 771	CE2	PHE	A	52	-0.449	4.763	2.518	1.00	0.00
ATOM 772	CZ	PHE	A	52	0.110	3.941	1.557	1.00	0.00
ATOM 773	H	PHE	A	52	2.022	3.578	5.401	1.00	0.00
ATOM 774	HA	PHE	A	52	4.420	4.723	4.403	1.00	0.00
ATOM 775	1HB	PHE	A	52	1.971	6.281	5.218	1.00	0.00
ATOM 776	2HB	PHE	A	52	3.137	6.667	3.958	1.00	0.00
ATOM 777	HD1	PHE	A	52	3.350	4.208	2.449	1.00	0.00
ATOM 778	HD2	PHE	A	52	-0.077	6.023	4.202	1.00	0.00
ATOM 779	HE1	PHE	A	52	1.916	3.102	0.783	1.00	0.00
ATOM 780	HE2	PHE	A	52	-1.517	4.919	2.539	1.00	0.00
ATOM 781	HZ	PHE	A	52	-0.521	3.457	0.827	1.00	0.00
ATOM 782	N	ARG	A	53	3.514	5.499	7.460	1.00	0.00
ATOM 783	CA	ARG	A	53	3.974	6.090	8.712	1.00	0.00

ATOM 784	C	ARG A	53	5.215	5.373	9.234	1.00	0.00
ATOM 785	O	ARG A	53	6.016	5.954	9.965	1.00	0.00
ATOM 786	CB	ARG A	53	2.862	6.039	9.762	1.00	0.00
ATOM 787	CG	ARG A	53	1.607	6.798	9.356	1.00	0.00
ATOM 788	CD	ARG A	53	1.296	7.929	10.324	1.00	0.00
ATOM 789	NE	ARG A	53	0.891	9.149	9.631	1.00	0.00
ATOM 790	CZ	ARG A	53	0.842	10.348	10.205	1.00	0.00
ATOM 791	NH1	ARG A	53	1.174	10.494	11.483	1.00	0.00
ATOM 792	NH2	ARG A	53	0.464	11.406	9.502	1.00	0.00
ATOM 793	H	ARG A	53	2.659	5.020	7.443	1.00	0.00
ATOM 794	HA	ARG A	53	4.223	7.122	8.517	1.00	0.00
ATOM 795	1HB	ARG A	53	2.592	5.007	9.933	1.00	0.00
ATOM 796	2HB	ARG A	53	3.233	6.463	10.683	1.00	0.00
ATOM 797	1HG	ARG A	53	1.753	7.214	8.371	1.00	0.00
ATOM 798	2HG	ARG A	53	0.773	6.111	9.338	1.00	0.00
ATOM 799	1HD	ARG A	53	0.496	7.615	10.978	1.00	0.00
ATOM 800	2HD	ARG A	53	2.179	8.137	10.912	1.00	0.00
ATOM 801	HE	ARG A	53	0.640	9.070	8.686	1.00	0.00
ATOM 802	1HH1	ARG A	53	1.461	9.701	12.019	1.00	0.00
ATOM 803	2HH1	ARG A	53	1.136	11.398	11.909	1.00	0.00
ATOM 804	1HH2	ARG A	53	0.213	11.303	8.539	1.00	0.00
ATOM 805	2HH2	ARG A	53	0.428	12.308	9.934	1.00	0.00
ATOM 806	N	ASN A	54	5.370	4.109	8.854	1.00	0.00
ATOM 807	CA	ASN A	54	6.517	3.318	9.287	1.00	0.00
ATOM 808	C	ASN A	54	7.673	3.445	8.299	1.00	0.00
ATOM 809	O	ASN A	54	8.839	3.318	8.675	1.00	0.00
ATOM 810	CB	ASN A	54	6.120	1.848	9.437	1.00	0.00

ATOM 811	CG	ASN A	54	5.523	1.545	10.796	1.00	0.00
ATOM 812	OD1	ASN A	54	6.206	1.618	11.818	1.00	0.00
ATOM 813	ND2	ASN A	54	4.240	1.201	10.816	1.00	0.00
ATOM 814	H	ASN A	54	4.699	3.697	8.271	1.00	0.00
ATOM 815	HA	ASN A	54	6.836	3.694	10.247	1.00	0.00
ATOM 816	1HB	ASN A	54	5.390	1.599	8.681	1.00	0.00
ATOM 817	2HB	ASN A	54	6.997	1.230	9.303	1.00	0.00
ATOM 818	1HD2	ASN A	54	3.758	1.163	9.964	1.00	0.00
ATOM 819	2HD2	ASN A	54	3.829	1.000	11.683	1.00	0.00
ATOM 820	N	SER A	55	7.343	3.698	7.036	1.00	0.00
ATOM 821	CA	SER A	55	8.356	3.842	5.997	1.00	0.00
ATOM 822	C	SER A	55	9.261	5.037	6.276	1.00	0.00
ATOM 823	O	SER A	55	9.016	5.812	7.201	1.00	0.00
ATOM 824	CB	SER A	55	7.691	4.003	4.629	1.00	0.00
ATOM 825	OG	SER A	55	7.256	5.337	4.426	1.00	0.00
ATOM 826	H	SER A	55	6.398	3.789	6.798	1.00	0.00
ATOM 827	HA	SER A	55	8.955	2.945	5.991	1.00	0.00
ATOM 828	1HB	SER A	55	8.399	3.748	3.854	1.00	0.00
ATOM 829	2HB	SER A	55	6.837	3.345	4.565	1.00	0.00
ATOM 830	HG	SER A	55	6.506	5.342	3.826	1.00	0.00
ATOM 831	N	SER A	56	10.309	5.180	5.472	1.00	0.00
ATOM 832	CA	SER A	56	11.252	6.280	5.630	1.00	0.00
ATOM 833	C	SER A	56	10.655	7.591	5.123	1.00	0.00
ATOM 834	O	SER A	56	11.062	8.673	5.546	1.00	0.00
ATOM 835	CB	SER A	56	12.551	5.978	4.882	1.00	0.00
ATOM 836	OG	SER A	56	13.604	6.814	5.328	1.00	0.00
ATOM 837	H	SER A	56	10.450	4.530	4.751	1.00	0.00

ATOM 838	HA	SER A	56	11.469	6.381	6.683	1.00	0.00
ATOM 839	1HB	SER A	56	12.830	4.948	5.053	1.00	0.00
ATOM 840	2HB	SER A	56	12.402	6.139	3.824	1.00	0.00
ATOM 841	HG	SER A	56	13.802	7.467	4.652	1.00	0.00
ATOM 842	N	ILE A	57	9.687	7.487	4.217	1.00	0.00
ATOM 843	CA	ILE A	57	9.036	8.664	3.656	1.00	0.00
ATOM 844	C	ILE A	57	7.763	9.003	4.425	1.00	0.00
ATOM 845	O	ILE A	57	6.711	9.250	3.835	1.00	0.00
ATOM 846	CB	ILE A	57	8.691	8.460	2.168	1.00	0.00
ATOM 847	CG1	ILE A	57	7.747	7.268	1.998	1.00	0.00
ATOM 848	CG2	ILE A	57	9.960	8.257	1.353	1.00	0.00
ATOM 849	CD1	ILE A	57	7.130	7.177	0.619	1.00	0.00
ATOM 850	H	ILE A	57	9.405	6.598	3.919	1.00	0.00
ATOM 851	HA	ILE A	57	9.723	9.494	3.734	1.00	0.00
ATOM 852	HB	ILE A	57	8.201	9.353	1.809	1.00	0.00
ATOM 853	1HG1	ILE A	57	8.294	6.354	2.176	1.00	0.00
ATOM 854	2HG1	ILE A	57	6.945	7.347	2.717	1.00	0.00
ATOM 855	1HG2	ILE A	57	9.857	8.752	0.398	1.00	0.00
ATOM 856	2HG2	ILE A	57	10.122	7.201	1.196	1.00	0.00
ATOM 857	3HG2	ILE A	57	10.801	8.676	1.886	1.00	0.00
ATOM 858	1HD1	ILE A	57	6.601	8.093	0.401	1.00	0.00
ATOM 859	2HD1	ILE A	57	6.440	6.347	0.588	1.00	0.00
ATOM 860	3HD1	ILE A	57	7.907	7.026	-0.114	1.00	0.00
ATOM 861	N	LYS A	58	7.867	9.010	5.750	1.00	0.00
ATOM 862	CA	LYS A	58	6.728	9.317	6.609	1.00	0.00
ATOM 863	C	LYS A	58	6.637	10.813	6.901	1.00	0.00
ATOM 864	O	LYS A	58	6.047	11.222	7.901	1.00	0.00

ATOM 865	CB	LYS A	58	6.836	8.539	7.922	1.00	0.00
ATOM 866	CG	LYS A	58	8.043	8.928	8.759	1.00	0.00
ATOM 867	CD	LYS A	58	8.197	8.026	9.972	1.00	0.00
ATOM 868	CE	LYS A	58	8.992	8.704	11.078	1.00	0.00
ATOM 869	NZ	LYS A	58	10.179	7.901	11.480	1.00	0.00
ATOM 870	H	LYS A	58	8.733	8.803	6.161	1.00	0.00
ATOM 871	HA	LYS A	58	5.831	9.008	6.092	1.00	0.00
ATOM 872	1HB	LYS A	58	5.946	8.718	8.507	1.00	0.00
ATOM 873	2HB	LYS A	58	6.904	7.484	7.698	1.00	0.00
ATOM 874	1HG	LYS A	58	8.931	8.848	8.150	1.00	0.00
ATOM 875	2HG	LYS A	58	7.924	9.949	9.093	1.00	0.00
ATOM 876	1HD	LYS A	58	7.216	7.778	10.350	1.00	0.00
ATOM 877	2HD	LYS A	58	8.709	7.123	9.675	1.00	0.00
ATOM 878	1HE	LYS A	58	9.324	9.669	10.725	1.00	0.00
ATOM 879	2HE	LYS A	58	8.350	8.837	11.936	1.00	0.00
ATOM 880	1HZ	LYS A	58	10.964	8.531	11.744	1.00	0.00
ATOM 881	2HZ	LYS A	58	10.487	7.296	10.692	1.00	0.00
ATOM 882	3HZ	LYS A	58	9.944	7.298	12.294	1.00	0.00
ATOM 883	N	SER A	59	7.226	11.627	6.030	1.00	0.00
ATOM 884	CA	SER A	59	7.208	13.075	6.206	1.00	0.00
ATOM 885	C	SER A	59	6.544	13.769	5.020	1.00	0.00
ATOM 886	O	SER A	59	5.942	14.833	5.170	1.00	0.00
ATOM 887	CB	SER A	59	8.633	13.603	6.386	1.00	0.00
ATOM 888	OG	SER A	59	8.667	14.673	7.314	1.00	0.00
ATOM 889	H	SER A	59	7.684	11.247	5.253	1.00	0.00
ATOM 890	HA	SER A	59	6.640	13.292	7.098	1.00	0.00
ATOM 891	1HB	SER A	59	9.266	12.808	6.750	1.00	0.00



ATOM 892	2HB	SER A	59	9.007	13.954	5.435	1.00	0.00
ATOM 893	HG	SER A	59	9.555	15.039	7.348	1.00	0.00
ATOM 894	N	TYR A	60	6.661	13.167	3.840	1.00	0.00
ATOM 895	CA	TYR A	60	6.075	13.735	2.632	1.00	0.00
ATOM 896	C	TYR A	60	4.816	12.978	2.218	1.00	0.00
ATOM 897	O	TYR A	60	3.887	13.561	1.658	1.00	0.00
ATOM 898	CB	TYR A	60	7.091	13.715	1.490	1.00	0.00
ATOM 899	CG	TYR A	60	8.267	14.640	1.709	1.00	0.00
ATOM 900	CD1	TYR A	60	9.571	14.170	1.616	1.00	0.00
ATOM 901	CD2	TYR A	60	8.073	15.982	2.008	1.00	0.00
ATOM 902	CE1	TYR A	60	10.649	15.012	1.817	1.00	0.00
ATOM 903	CE2	TYR A	60	9.145	16.830	2.209	1.00	0.00
ATOM 904	CZ	TYR A	60	10.430	16.341	2.113	1.00	0.00
ATOM 905	OH	TYR A	60	11.500	17.182	2.313	1.00	0.00
ATOM 906	H	TYR A	60	7.155	12.324	3.778	1.00	0.00
ATOM 907	HA	TYR A	60	5.809	14.760	2.844	1.00	0.00
ATOM 908	1HB	TYR A	60	7.475	12.712	1.376	1.00	0.00
ATOM 909	2HB	TYR A	60	6.600	14.011	0.574	1.00	0.00
ATOM 910	HD1	TYR A	60	9.738	13.129	1.384	1.00	0.00
ATOM 911	HD2	TYR A	60	7.065	16.363	2.084	1.00	0.00
ATOM 912	HE1	TYR A	60	11.655	14.628	1.741	1.00	0.00
ATOM 913	HE2	TYR A	60	8.973	17.872	2.442	1.00	0.00
ATOM 914	HH	TYR A	60	11.605	17.350	3.253	1.00	0.00
ATOM 915	N	PHE A	61	4.792	11.678	2.493	1.00	0.00
ATOM 916	CA	PHE A	61	3.645	10.846	2.143	1.00	0.00
ATOM 917	C	PHE A	61	2.361	11.396	2.759	1.00	0.00
ATOM 918	O	PHE A	61	2.359	11.869	3.896	1.00	0.00

ATOM 919	CB	PHE A	61	3.868	9.405	2.605	1.00	0.00
ATOM 920	CG	PHE A	61	3.020	8.405	1.871	1.00	0.00
ATOM 921	CD1	PHE A	61	1.645	8.384	2.041	1.00	0.00
ATOM 922	CD2	PHE A	61	3.599	7.488	1.008	1.00	0.00
ATOM 923	CE1	PHE A	61	0.863	7.467	1.366	1.00	0.00
ATOM 924	CE2	PHE A	61	2.821	6.567	0.330	1.00	0.00
ATOM 925	CZ	PHE A	61	1.452	6.558	0.510	1.00	0.00
ATOM 926	H	PHE A	61	5.562	11.268	2.938	1.00	0.00
ATOM 927	HA	PHE A	61	3.545	10.857	1.068	1.00	0.00
ATOM 928	1HB	PHE A	61	4.903	9.140	2.451	1.00	0.00
ATOM 929	2HB	PHE A	61	3.635	9.331	3.657	1.00	0.00
ATOM 930	HD1	PHE A	61	1.184	9.095	2.711	1.00	0.00
ATOM 931	HD2	PHE A	61	4.669	7.494	0.867	1.00	0.00
ATOM 932	HE1	PHE A	61	-0.208	7.461	1.508	1.00	0.00
ATOM 933	HE2	PHE A	61	3.285	5.857	-0.339	1.00	0.00
ATOM 934	HZ	PHE A	61	0.843	5.840	-0.020	1.00	0.00
ATOM 935	N	SER A	62	1.272	11.331	1.999	1.00	0.00
ATOM 936	CA	SER A	62	-0.018	11.822	2.468	1.00	0.00
ATOM 937	C	SER A	62	-0.954	10.664	2.795	1.00	0.00
ATOM 938	O	SER A	62	-1.248	10.399	3.960	1.00	0.00
ATOM 939	CB	SER A	62	-0.655	12.728	1.413	1.00	0.00
ATOM 940	OG	SER A	62	-1.989	13.056	1.761	1.00	0.00
ATOM 941	H	SER A	62	1.339	10.943	1.102	1.00	0.00
ATOM 942	HA	SER A	62	0.153	12.396	3.367	1.00	0.00
ATOM 943	1HB	SER A	62	-0.083	13.640	1.333	1.00	0.00
ATOM 944	2HB	SER A	62	-0.659	12.221	0.460	1.00	0.00
ATOM 945	HG	SER A	62	-2.143	13.989	1.595	1.00	0.00

ATOM 946	N	ASP A	63	-1.422	9.976	1.758	1.00	0.00
ATOM 947	CA	ASP A	63	-2.327	8.846	1.938	1.00	0.00
ATOM 948	C	ASP A	63	-2.520	8.086	0.630	1.00	0.00
ATOM 949	O	ASP A	63	-2.038	8.505	-0.423	1.00	0.00
ATOM 950	CB	ASP A	63	-3.679	9.330	2.465	1.00	0.00
ATOM 951	CG	ASP A	63	-4.283	8.373	3.474	1.00	0.00
ATOM 952	OD1	ASP A	63	-4.020	8.543	4.683	1.00	0.00
ATOM 953	OD2	ASP A	63	-5.018	7.455	3.055	1.00	0.00
ATOM 954	H	ASP A	63	-1.154	10.234	0.851	1.00	0.00
ATOM 955	HA	ASP A	63	-1.886	8.182	2.665	1.00	0.00
ATOM 956	1HB	ASP A	63	-3.552	10.291	2.941	1.00	0.00
ATOM 957	2HB	ASP A	63	-4.365	9.432	1.637	1.00	0.00
ATOM 958	N	CYS A	64	-3.228	6.963	0.705	1.00	0.00
ATOM 959	CA	CYS A	64	-3.488	6.141	-0.470	1.00	0.00
ATOM 960	C	CYS A	64	-4.986	6.023	-0.730	1.00	0.00
ATOM 961	O	CYS A	64	-5.765	5.751	0.184	1.00	0.00
ATOM 962	CB	CYS A	64	-2.879	4.749	-0.290	1.00	0.00
ATOM 963	SG	CYS A	64	-2.191	4.041	-1.804	1.00	0.00
ATOM 964	H	CYS A	64	-3.586	6.681	1.573	1.00	0.00
ATOM 965	HA	CYS A	64	-3.023	6.619	-1.319	1.00	0.00
ATOM 966	1HB	CYS A	64	-2.083	4.804	0.438	1.00	0.00
ATOM 967	2HB	CYS A	64	-3.642	4.075	0.072	1.00	0.00
ATOM 968	HG	CYS A	64	-1.526	3.396	-1.553	1.00	0.00
ATOM 969	N	GLN A	65	-5.383	6.229	-1.982	1.00	0.00
ATOM 970	CA	GLN A	65	-6.789	6.145	-2.361	1.00	0.00
ATOM 971	C	GLN A	65	-7.056	4.887	-3.180	1.00	0.00
ATOM 972	O	GLN A	65	-6.727	4.825	-4.364	1.00	0.00

ATOM 973	CB	GLN A	65	-7.199	7.384	-3.158	1.00	0.00
ATOM 974	CG	GLN A	65	-8.696	7.650	-3.142	1.00	0.00
ATOM 975	CD	GLN A	65	-9.396	7.115	-4.376	1.00	0.00
ATOM 976	OE1	GLN A	65	-9.968	6.025	-4.355	1.00	0.00
ATOM 977	NE2	GLN A	65	-9.353	7.882	-5.459	1.00	0.00
ATOM 978	H	GLN A	65	-4.715	6.443	-2.666	1.00	0.00
ATOM 979	HA	GLN A	65	-7.374	6.102	-1.454	1.00	0.00
ATOM 980	1HB	GLN A	65	-6.698	8.247	-2.744	1.00	0.00
ATOM 981	2HB	GLN A	65	-6.889	7.257	-4.184	1.00	0.00
ATOM 982	1HG	GLN A	65	-9.123	7.177	-2.271	1.00	0.00
ATOM 983	2HG	GLN A	65	-8.859	8.717	-3.087	1.00	0.00
ATOM 984	1HE2	GLN A	65	-8.879	8.737	-5.403	1.00	0.00
ATOM 985	2HE2	GLN A	65	-9.798	7.560	-6.271	1.00	0.00
ATOM 986	N	VAL A	66	-7.656	3.887	-2.542	1.00	0.00
ATOM 987	CA	VAL A	66	-7.969	2.633	-3.213	1.00	0.00
ATOM 988	C	VAL A	66	-9.110	2.813	-4.209	1.00	0.00
ATOM 989	O	VAL A	66	-10.275	2.917	-3.824	1.00	0.00
ATOM 990	CB	VAL A	66	-8.344	1.532	-2.200	1.00	0.00
ATOM 991	CG1	VAL A	66	-9.560	1.943	-1.383	1.00	0.00
ATOM 992	CG2	VAL A	66	-8.587	0.205	-2.910	1.00	0.00
ATOM 993	H	VAL A	66	-7.896	3.997	-1.598	1.00	0.00
ATOM 994	HA	VAL A	66	-7.085	2.314	-3.748	1.00	0.00
ATOM 995	HB	VAL A	66	-7.513	1.402	-1.521	1.00	0.00
ATOM 996	1HG1	VAL A	66	-9.403	1.681	-0.347	1.00	0.00
ATOM 997	2HG1	VAL A	66	-10.434	1.429	-1.755	1.00	0.00
ATOM 998	3HG1	VAL A	66	-9.706	3.010	-1.467	1.00	0.00
ATOM 999	1HG2	VAL A	66	-9.584	-0.146	-2.687	1.00	0.00

ATOM 1000	2HG2	VAL	A	66	-7.865	-0.522	-2.569	1.00	0.00
ATOM 1001	3HG2	VAL	A	66	-8.484	0.342	-3.976	1.00	0.00
ATOM 1002	N	LEU	A	67	-8.767	2.852	-5.493	1.00	0.00
ATOM 1003	CA	LEU	A	67	-9.760	3.023	-6.546	1.00	0.00
ATOM 1004	C	LEU	A	67	-10.783	1.891	-6.519	1.00	0.00
ATOM 1005	O	LEU	A	67	-11.959	2.112	-6.231	1.00	0.00
ATOM 1006	CB	LEU	A	67	-9.077	3.075	-7.915	1.00	0.00
ATOM 1007	CG	LEU	A	67	-7.904	4.052	-8.017	1.00	0.00
ATOM 1008	CD1	LEU	A	67	-7.336	4.057	-9.428	1.00	0.00
ATOM 1009	CD2	LEU	A	67	-8.340	5.451	-7.610	1.00	0.00
ATOM 1010	H	LEU	A	67	-7.822	2.766	-5.737	1.00	0.00
ATOM 1011	HA	LEU	A	67	-10.271	3.957	-6.373	1.00	0.00
ATOM 1012	1HB	LEU	A	67	-8.716	2.084	-8.152	1.00	0.00
ATOM 1013	2HB	LEU	A	67	-9.815	3.357	-8.651	1.00	0.00
ATOM 1014	HG	LEU	A	67	-7.121	3.735	-7.342	1.00	0.00
ATOM 1015	1HD1	LEU	A	67	-8.107	3.769	-10.127	1.00	0.00
ATOM 1016	2HD1	LEU	A	67	-6.517	3.358	-9.487	1.00	0.00
ATOM 1017	3HD1	LEU	A	67	-6.983	5.048	-9.669	1.00	0.00
ATOM 1018	1HD2	LEU	A	67	-8.841	5.408	-6.654	1.00	0.00
ATOM 1019	2HD2	LEU	A	67	-9.018	5.847	-8.353	1.00	0.00
ATOM 1020	3HD2	LEU	A	67	-7.474	6.090	-7.534	1.00	0.00
ATOM 1021	N	ALA	A	68	-10.327	0.680	-6.821	1.00	0.00
ATOM 1022	CA	ALA	A	68	-11.204	-0.484	-6.832	1.00	0.00
ATOM 1023	C	ALA	A	68	-10.399	-1.778	-6.853	1.00	0.00
ATOM 1024	O	ALA	A	68	-9.170	-1.756	-6.930	1.00	0.00
ATOM 1025	CB	ALA	A	68	-12.145	-0.426	-8.026	1.00	0.00
ATOM 1026	H	ALA	A	68	-9.379	0.567	-7.043	1.00	0.00

ATOM 1027	HA	ALA	A	68	-11.801	-0.459	-5.931	1.00	0.00
ATOM 1028	1HB	ALA	A	68	-12.270	0.601	-8.336	1.00	0.00
ATOM 1029	2HB	ALA	A	68	-13.104	-0.837	-7.749	1.00	0.00
ATOM 1030	3HB	ALA	A	68	-11.728	-0.999	-8.841	1.00	0.00
ATOM 1031	N	PHE	A	69	-11.098	-2.906	-6.785	1.00	0.00
ATOM 1032	CA	PHE	A	69	-10.449	-4.212	-6.796	1.00	0.00
ATOM 1033	C	PHE	A	69	-10.587	-4.875	-8.163	1.00	0.00
ATOM 1034	O	PHE	A	69	-11.689	-5.217	-8.590	1.00	0.00
ATOM 1035	CB	PHE	A	69	-11.049	-5.112	-5.715	1.00	0.00
ATOM 1036	CG	PHE	A	69	-10.749	-4.653	-4.317	1.00	0.00
ATOM 1037	CD1	PHE	A	69	-9.470	-4.766	-3.795	1.00	0.00
ATOM 1038	CD2	PHE	A	69	-11.746	-4.108	-3.523	1.00	0.00
ATOM 1039	CE1	PHE	A	69	-9.191	-4.345	-2.509	1.00	0.00
ATOM 1040	CE2	PHE	A	69	-11.474	-3.685	-2.237	1.00	0.00
ATOM 1041	CZ	PHE	A	69	-10.195	-3.803	-1.729	1.00	0.00
ATOM 1042	H	PHE	A	69	-12.075	-2.859	-6.724	1.00	0.00
ATOM 1043	HA	PHE	A	69	-9.400	-4.061	-6.586	1.00	0.00
ATOM 1044	1HB	PHE	A	69	-12.122	-5.138	-5.832	1.00	0.00
ATOM 1045	2HB	PHE	A	69	-10.656	-6.111	-5.830	1.00	0.00
ATOM 1046	HD1	PHE	A	69	-8.684	-5.188	-4.404	1.00	0.00
ATOM 1047	HD2	PHE	A	69	-12.747	-4.015	-3.920	1.00	0.00
ATOM 1048	HE1	PHE	A	69	-8.191	-4.438	-2.114	1.00	0.00
ATOM 1049	HE2	PHE	A	69	-12.260	-3.261	-1.629	1.00	0.00
ATOM 1050	HZ	PHE	A	69	-9.979	-3.472	-0.723	1.00	0.00
ATOM 1051	N	ARG	A	70	-9.460	-5.056	-8.843	1.00	0.00
ATOM 1052	CA	ARG	A	70	-9.454	-5.679	-10.162	1.00	0.00
ATOM 1053	C	ARG	A	70	-9.662	-7.186	-10.053	1.00	0.00

ATOM	1054	O	ARG	A	70	-9.191	-7.822	-9.110	1.00	0.00
ATOM	1055	CB	ARG	A	70	-8.137	-5.386	-10.881	1.00	0.00
ATOM	1056	CG	ARG	A	70	-8.295	-5.177	-12.378	1.00	0.00
ATOM	1057	CD	ARG	A	70	-8.604	-3.725	-12.708	1.00	0.00
ATOM	1058	NE	ARG	A	70	-8.244	-3.389	-14.083	1.00	0.00
ATOM	1059	CZ	ARG	A	70	-8.716	-2.328	-14.734	1.00	0.00
ATOM	1060	NH1	ARG	A	70	-9.565	-1.499	-14.139	1.00	0.00
ATOM	1061	NH2	ARG	A	70	-8.337	-2.094	-15.983	1.00	0.00
ATOM	1062	H	ARG	A	70	-8.611	-4.763	-8.450	1.00	0.00
ATOM	1063	HA	ARG	A	70	-10.268	-5.256	-10.732	1.00	0.00
ATOM	1064	1HB	ARG	A	70	-7.699	-4.494	-10.458	1.00	0.00
ATOM	1065	2HB	ARG	A	70	-7.462	-6.215	-10.725	1.00	0.00
ATOM	1066	1HG	ARG	A	70	-7.377	-5.460	-12.870	1.00	0.00
ATOM	1067	2HG	ARG	A	70	-9.103	-5.798	-12.735	1.00	0.00
ATOM	1068	1HD	ARG	A	70	-9.661	-3.556	-12.571	1.00	0.00
ATOM	1069	2HD	ARG	A	70	-8.048	-3.090	-12.034	1.00	0.00
ATOM	1070	HE	ARG	A	70	-7.618	-3.983	-14.546	1.00	0.00
ATOM	1071	1HH1	ARG	A	70	-9.853	-1.669	-13.196	1.00	0.00
ATOM	1072	2HH1	ARG	A	70	-9.916	-0.704	-14.632	1.00	0.00
ATOM	1073	1HH2	ARG	A	70	-7.697	-2.715	-16.435	1.00	0.00
ATOM	1074	2HH2	ARG	A	70	-8.692	-1.298	-16.473	1.00	0.00
ATOM	1075	N	SER	A	71	-10.373	-7.751	-11.023	1.00	0.00
ATOM	1076	CA	SER	A	71	-10.645	-9.184	-11.036	1.00	0.00
ATOM	1077	C	SER	A	71	-9.596	-9.929	-11.854	1.00	0.00
ATOM	1078	O	SER	A	71	-8.701	-9.319	-12.441	1.00	0.00
ATOM	1079	CB	SER	A	71	-12.038	-9.455	-11.607	1.00	0.00
ATOM	1080	OG	SER	A	71	-12.521	-10.722	-11.197	1.00	0.00

ATOM 1081	H	SER A	71	-10.723	-7.192	-11.747	1.00	0.00
ATOM 1082	HA	SER A	71	-10.608	-9.538	-10.017	1.00	0.00
ATOM 1083	1HB	SER A	71	-12.722	-8.694	-11.258	1.00	0.00
ATOM 1084	2HB	SER A	71	-11.994	-9.431	-12.686	1.00	0.00
ATOM 1085	HG	SER A	71	-13.232	-10.998	-11.779	1.00	0.00
ATOM 1086	N	VAL A	72	-9.709	-11.254	-11.889	1.00	0.00
ATOM 1087	CA	VAL A	72	-8.769	-12.082	-12.635	1.00	0.00
ATOM 1088	C	VAL A	72	-9.446	-13.343	-13.161	1.00	0.00
ATOM 1089	O	VAL A	72	-10.324	-13.907	-12.509	1.00	0.00
ATOM 1090	CB	VAL A	72	-7.562	-12.484	-11.767	1.00	0.00
ATOM 1091	CG1	VAL A	72	-6.627	-11.300	-11.571	1.00	0.00
ATOM 1092	CG2	VAL A	72	-8.026	-13.033	-10.427	1.00	0.00
ATOM 1093	H	VAL A	72	-10.442	-11.683	-11.401	1.00	0.00
ATOM 1094	HA	VAL A	72	-8.408	-11.503	-13.472	1.00	0.00
ATOM 1095	HB	VAL A	72	-7.018	-13.261	-12.282	1.00	0.00
ATOM 1096	1HG1	VAL A	72	-6.799	-10.573	-12.352	1.00	0.00
ATOM 1097	2HG1	VAL A	72	-5.603	-11.639	-11.614	1.00	0.00
ATOM 1098	3HG1	VAL A	72	-6.817	-10.846	-10.609	1.00	0.00
ATOM 1099	1HG2	VAL A	72	-7.957	-12.259	-9.677	1.00	0.00
ATOM 1100	2HG2	VAL A	72	-7.398	-13.865	-10.143	1.00	0.00
ATOM 1101	3HG2	VAL A	72	-9.050	-13.365	-10.509	1.00	0.00
ATOM 1102	N	SER A	73	-9.029	-13.781	-14.344	1.00	0.00
ATOM 1103	CA	SER A	73	-9.593	-14.977	-14.959	1.00	0.00
ATOM 1104	C	SER A	73	-8.924	-16.235	-14.417	1.00	0.00
ATOM 1105	O	SER A	73	-7.966	-16.157	-13.648	1.00	0.00
ATOM 1106	CB	SER A	73	-9.436	-14.916	-16.479	1.00	0.00
ATOM 1107	OG	SER A	73	-9.897	-16.109	-17.089	1.00	0.00



ATOM	1108	H	SER	A	73	-8.325	-13.288	-14.816	1.00	0.00
ATOM	1109	HA	SER	A	73	-10.645	-15.010	-14.716	1.00	0.00
ATOM	1110	1HB	SER	A	73	-10.008	-14.086	-16.865	1.00	0.00
ATOM	1111	2HB	SER	A	73	-8.394	-14.781	-16.726	1.00	0.00
ATOM	1112	N	ASN	A	74	-9.436	-17.395	-14.821	1.00	0.00
ATOM	1113	CA	ASN	A	74	-8.889	-18.673	-14.375	1.00	0.00
ATOM	1114	C	ASN	A	74	-9.084	-18.850	-12.872	1.00	0.00
ATOM	1115	O	ASN	A	74	-9.979	-19.574	-12.434	1.00	0.00
ATOM	1116	CB	ASN	A	74	-7.402	-18.771	-14.730	1.00	0.00
ATOM	1117	CG	ASN	A	74	-7.108	-19.917	-15.678	1.00	0.00
ATOM	1118	OD1	ASN	A	74	-7.184	-19.764	-16.898	1.00	0.00
ATOM	1119	ND2	ASN	A	74	-6.770	-21.074	-15.122	1.00	0.00
ATOM	1120	H	ASN	A	74	-10.200	-17.391	-15.435	1.00	0.00
ATOM	1121	HA	ASN	A	74	-9.424	-19.457	-14.889	1.00	0.00
ATOM	1122	1HB	ASN	A	74	-7.089	-17.851	-15.201	1.00	0.00
ATOM	1123	2HB	ASN	A	74	-6.829	-18.920	-13.825	1.00	0.00
ATOM	1124	1HD2	ASN	A	74	-6.730	-21.123	-14.145	1.00	0.00
ATOM	1125	2HD2	ASN	A	74	-6.575	-21.831	-15.712	1.00	0.00
ATOM	1126	N	ASN	A	75	-8.245	-18.181	-12.088	1.00	0.00
ATOM	1127	CA	ASN	A	75	-8.328	-18.261	-10.634	1.00	0.00
ATOM	1128	C	ASN	A	75	-8.965	-17.000	-10.060	1.00	0.00
ATOM	1129	O	ASN	A	75	-8.458	-15.895	-10.251	1.00	0.00
ATOM	1130	CB	ASN	A	75	-6.936	-18.464	-10.033	1.00	0.00
ATOM	1131	CG	ASN	A	75	-6.972	-19.269	-8.749	1.00	0.00
ATOM	1132	OD1	ASN	A	75	-7.374	-20.432	-8.744	1.00	0.00
ATOM	1133	ND2	ASN	A	75	-6.549	-18.653	-7.652	1.00	0.00
ATOM	1134	H	ASN	A	75	-7.555	-17.618	-12.497	1.00	0.00

ATOM	1135	HA	ASN	A	75	-8.946	-19.110	-10.384	1.00	0.00
ATOM	1136	1HB	ASN	A	75	-6.315	-18.986	-10.747	1.00	0.00
ATOM	1137	2HB	ASN	A	75	-6.498	-17.499	-9.821	1.00	0.00
ATOM	1138	1HD2	ASN	A	75	-6.243	-17.725	-7.731	1.00	0.00
ATOM	1139	2HD2	ASN	A	75	-6.562	-19.150	-6.808	1.00	0.00
ATOM	1140	N	ASN	A	76	-10.080	-17.173	-9.359	1.00	0.00
ATOM	1141	CA	ASN	A	76	-10.787	-16.046	-8.759	1.00	0.00
ATOM	1142	C	ASN	A	76	-10.407	-15.884	-7.289	1.00	0.00
ATOM	1143	O	ASN	A	76	-11.247	-15.554	-6.452	1.00	0.00
ATOM	1144	CB	ASN	A	76	-12.300	-16.237	-8.898	1.00	0.00
ATOM	1145	CG	ASN	A	76	-12.940	-15.163	-9.757	1.00	0.00
ATOM	1146	OD1	ASN	A	76	-13.495	-14.191	-9.244	1.00	0.00
ATOM	1147	ND2	ASN	A	76	-12.866	-15.334	-11.071	1.00	0.00
ATOM	1148	H	ASN	A	76	-10.437	-18.077	-9.242	1.00	0.00
ATOM	1149	HA	ASN	A	76	-10.495	-15.153	-9.292	1.00	0.00
ATOM	1150	1HB	ASN	A	76	-12.495	-17.197	-9.354	1.00	0.00
ATOM	1151	2HB	ASN	A	76	-12.755	-16.210	-7.920	1.00	0.00
ATOM	1152	1HD2	ASN	A	76	-12.409	-16.132	-11.410	1.00	0.00
ATOM	1153	2HD2	ASN	A	76	-13.271	-14.654	-11.650	1.00	0.00
ATOM	1154	N	ASN	A	77	-9.136	-16.118	-6.983	1.00	0.00
ATOM	1155	CA	ASN	A	77	-8.642	-15.997	-5.616	1.00	0.00
ATOM	1156	C	ASN	A	77	-7.818	-14.724	-5.442	1.00	0.00
ATOM	1157	O	ASN	A	77	-7.689	-14.203	-4.335	1.00	0.00
ATOM	1158	CB	ASN	A	77	-7.800	-17.219	-5.246	1.00	0.00
ATOM	1159	CG	ASN	A	77	-8.076	-17.704	-3.835	1.00	0.00
ATOM	1160	OD1	ASN	A	77	-7.154	-17.901	-3.044	1.00	0.00
ATOM	1161	ND2	ASN	A	77	-9.349	-17.899	-3.515	1.00	0.00

ATOM	1162	H	ASN	A	77	-8.513	-16.376	-7.694	1.00	0.00
ATOM	1163	HA	ASN	A	77	-9.498	-15.948	-4.959	1.00	0.00
ATOM	1164	1HB	ASN	A	77	-8.023	-18.023	-5.932	1.00	0.00
ATOM	1165	2HB	ASN	A	77	-6.753	-16.965	-5.323	1.00	0.00
ATOM	1166	1HD2	ASN	A	77	-10.031	-17.721	-4.196	1.00	0.00
ATOM	1167	2HD2	ASN	A	77	-9.556	-18.211	-2.609	1.00	0.00
ATOM	1168	N	HIS	A	78	-7.260	-14.228	-6.542	1.00	0.00
ATOM	1169	CA	HIS	A	78	-6.449	-13.017	-6.506	1.00	0.00
ATOM	1170	C	HIS	A	78	-7.327	-11.772	-6.590	1.00	0.00
ATOM	1171	O	HIS	A	78	-8.528	-11.864	-6.840	1.00	0.00
ATOM	1172	CB	HIS	A	78	-5.439	-13.023	-7.655	1.00	0.00
ATOM	1173	CG	HIS	A	78	-4.618	-14.272	-7.722	1.00	0.00
ATOM	1174	ND1	HIS	A	78	-3.961	-14.682	-8.863	1.00	0.00
ATOM	1175	CD2	HIS	A	78	-4.348	-15.207	-6.780	1.00	0.00
ATOM	1176	CE1	HIS	A	78	-3.323	-15.814	-8.620	1.00	0.00
ATOM	1177	NE2	HIS	A	78	-3.542	-16.154	-7.363	1.00	0.00
ATOM	1178	H	HIS	A	78	-7.395	-14.687	-7.397	1.00	0.00
ATOM	1179	HA	HIS	A	78	-5.914	-13.004	-5.569	1.00	0.00
ATOM	1180	1HB	HIS	A	78	-5.967	-12.922	-8.591	1.00	0.00
ATOM	1181	2HB	HIS	A	78	-4.764	-12.187	-7.535	1.00	0.00
ATOM	1182	HD1	HIS	A	78	-3.962	-14.213	-9.724	1.00	0.00
ATOM	1183	HD2	HIS	A	78	-4.702	-15.208	-5.758	1.00	0.00
ATOM	1184	HE1	HIS	A	78	-2.725	-16.367	-9.329	1.00	0.00
ATOM	1185	HE2	HIS	A	78	-3.113	-16.901	-6.897	1.00	0.00
ATOM	1186	N	THR	A	79	-6.718	-10.609	-6.379	1.00	0.00
ATOM	1187	CA	THR	A	79	-7.446	-9.347	-6.429	1.00	0.00
ATOM	1188	C	THR	A	79	-6.495	-8.179	-6.678	1.00	0.00

ATOM	1189	O	THR	A	79	-5.644	-7.872	-5.845	1.00	0.00
ATOM	1190	CB	THR	A	79	-8.213	-9.126	-5.124	1.00	0.00
ATOM	1191	OG1	THR	A	79	-9.098	-10.204	-4.875	1.00	0.00
ATOM	1192	CG2	THR	A	79	-9.030	-7.852	-5.119	1.00	0.00
ATOM	1193	H	THR	A	79	-5.758	-10.601	-6.183	1.00	0.00
ATOM	1194	HA	THR	A	79	-8.150	-9.402	-7.245	1.00	0.00
ATOM	1195	HB	THR	A	79	-7.507	-9.070	-4.309	1.00	0.00
ATOM	1196	HG1	THR	A	79	-8.855	-10.634	-4.052	1.00	0.00
ATOM	1197	1HG2	THR	A	79	-8.694	-7.212	-4.316	1.00	0.00
ATOM	1198	2HG2	THR	A	79	-10.073	-8.093	-4.974	1.00	0.00
ATOM	1199	3HG2	THR	A	79	-8.907	-7.340	-6.061	1.00	0.00
ATOM	1200	N	GLY	A	80	-6.648	-7.534	-7.830	1.00	0.00
ATOM	1201	CA	GLY	A	80	-5.798	-6.409	-8.169	1.00	0.00
ATOM	1202	C	GLY	A	80	-6.149	-5.159	-7.384	1.00	0.00
ATOM	1203	O	GLY	A	80	-7.231	-4.596	-7.551	1.00	0.00
ATOM	1204	H	GLY	A	80	-7.345	-7.825	-8.455	1.00	0.00
ATOM	1205	1HA	GLY	A	80	-4.771	-6.673	-7.964	1.00	0.00
ATOM	1206	2HA	GLY	A	80	-5.901	-6.199	-9.223	1.00	0.00
ATOM	1207	N	VAL	A	81	-5.232	-4.724	-6.525	1.00	0.00
ATOM	1208	CA	VAL	A	81	-5.453	-3.533	-5.713	1.00	0.00
ATOM	1209	C	VAL	A	81	-5.084	-2.268	-6.479	1.00	0.00
ATOM	1210	O	VAL	A	81	-3.915	-1.887	-6.537	1.00	0.00
ATOM	1211	CB	VAL	A	81	-4.636	-3.583	-4.407	1.00	0.00
ATOM	1212	CG1	VAL	A	81	-4.998	-2.413	-3.504	1.00	0.00
ATOM	1213	CG2	VAL	A	81	-4.853	-4.906	-3.690	1.00	0.00
ATOM	1214	H	VAL	A	81	-4.389	-5.215	-6.436	1.00	0.00
ATOM	1215	HA	VAL	A	81	-6.502	-3.494	-5.457	1.00	0.00

ATOM 1216	HB	VAL	A	81	-3.589	-3.503	-4.660	1.00	0.00
ATOM 1217	1HG1	VAL	A	81	-6.023	-2.123	-3.683	1.00	0.00
ATOM 1218	2HG1	VAL	A	81	-4.346	-1.580	-3.716	1.00	0.00
ATOM 1219	3HG1	VAL	A	81	-4.883	-2.707	-2.471	1.00	0.00
ATOM 1220	1HG2	VAL	A	81	-5.527	-4.760	-2.858	1.00	0.00
ATOM 1221	2HG2	VAL	A	81	-3.906	-5.274	-3.325	1.00	0.00
ATOM 1222	3HG2	VAL	A	81	-5.278	-5.624	-4.376	1.00	0.00
ATOM 1223	N	ASP	A	82	-6.086	-1.622	-7.064	1.00	0.00
ATOM 1224	CA	ASP	A	82	-5.865	-0.397	-7.825	1.00	0.00
ATOM 1225	C	ASP	A	82	-5.974	0.827	-6.920	1.00	0.00
ATOM 1226	O	ASP	A	82	-7.040	1.433	-6.807	1.00	0.00
ATOM 1227	CB	ASP	A	82	-6.873	-0.293	-8.970	1.00	0.00
ATOM 1228	CG	ASP	A	82	-6.348	-0.897	-10.258	1.00	0.00
ATOM 1229	OD1	ASP	A	82	-5.614	-1.905	-10.184	1.00	0.00
ATOM 1230	OD2	ASP	A	82	-6.671	-0.362	-11.340	1.00	0.00
ATOM 1231	H	ASP	A	82	-6.997	-1.975	-6.981	1.00	0.00
ATOM 1232	HA	ASP	A	82	-4.867	-0.438	-8.236	1.00	0.00
ATOM 1233	1HB	ASP	A	82	-7.779	-0.812	-8.695	1.00	0.00
ATOM 1234	2HB	ASP	A	82	-7.100	0.748	-9.148	1.00	0.00
ATOM 1235	N	SER	A	83	-4.866	1.182	-6.278	1.00	0.00
ATOM 1236	CA	SER	A	83	-4.837	2.332	-5.381	1.00	0.00
ATOM 1237	C	SER	A	83	-4.002	3.464	-5.973	1.00	0.00
ATOM 1238	O	SER	A	83	-3.524	3.370	-7.103	1.00	0.00
ATOM 1239	CB	SER	A	83	-4.276	1.924	-4.017	1.00	0.00
ATOM 1240	OG	SER	A	83	-3.350	0.859	-4.142	1.00	0.00
ATOM 1241	H	SER	A	83	-4.049	0.657	-6.409	1.00	0.00
ATOM 1242	HA	SER	A	83	-5.851	2.678	-5.253	1.00	0.00

ATOM	1243	1HB	SER	A	83	-3.773	2.770	-3.570	1.00	0.00
ATOM	1244	2HB	SER	A	83	-5.086	1.608	-3.377	1.00	0.00
ATOM	1245	HG	SER	A	83	-2.786	1.011	-4.905	1.00	0.00
ATOM	1246	N	LEU	A	84	-3.835	4.535	-5.202	1.00	0.00
ATOM	1247	CA	LEU	A	84	-3.063	5.685	-5.653	1.00	0.00
ATOM	1248	C	LEU	A	84	-2.171	6.220	-4.536	1.00	0.00
ATOM	1249	O	LEU	A	84	-2.658	6.768	-3.548	1.00	0.00
ATOM	1250	CB	LEU	A	84	-4.000	6.794	-6.142	1.00	0.00
ATOM	1251	CG	LEU	A	84	-3.436	7.696	-7.246	1.00	0.00
ATOM	1252	CD1	LEU	A	84	-2.008	8.118	-6.928	1.00	0.00
ATOM	1253	CD2	LEU	A	84	-3.498	6.991	-8.592	1.00	0.00
ATOM	1254	H	LEU	A	84	-4.243	4.551	-4.311	1.00	0.00
ATOM	1255	HA	LEU	A	84	-2.439	5.366	-6.475	1.00	0.00
ATOM	1256	1HB	LEU	A	84	-4.903	6.333	-6.511	1.00	0.00
ATOM	1257	2HB	LEU	A	84	-4.255	7.417	-5.298	1.00	0.00
ATOM	1258	HG	LEU	A	84	-4.038	8.590	-7.309	1.00	0.00
ATOM	1259	1HD1	LEU	A	84	-2.015	8.833	-6.118	1.00	0.00
ATOM	1260	2HD1	LEU	A	84	-1.564	8.569	-7.803	1.00	0.00
ATOM	1261	3HD1	LEU	A	84	-1.432	7.253	-6.640	1.00	0.00
ATOM	1262	1HD2	LEU	A	84	-4.373	7.322	-9.131	1.00	0.00
ATOM	1263	2HD2	LEU	A	84	-3.552	5.924	-8.438	1.00	0.00
ATOM	1264	3HD2	LEU	A	84	-2.613	7.229	-9.164	1.00	0.00
ATOM	1265	N	CYS	A	85	-0.860	6.067	-4.704	1.00	0.00
ATOM	1266	CA	CYS	A	85	0.098	6.546	-3.715	1.00	0.00
ATOM	1267	C	CYS	A	85	0.139	8.072	-3.712	1.00	0.00
ATOM	1268	O	CYS	A	85	1.114	8.678	-4.158	1.00	0.00
ATOM	1269	CB	CYS	A	85	1.491	5.980	-4.003	1.00	0.00

ATOM	1270	SG	CYS	A	85	1.800	4.364	-3.253	1.00	0.00
ATOM	1271	H	CYS	A	85	-0.530	5.629	-5.516	1.00	0.00
ATOM	1272	HA	CYS	A	85	-0.228	6.202	-2.744	1.00	0.00
ATOM	1273	1HB	CYS	A	85	1.614	5.874	-5.070	1.00	0.00
ATOM	1274	2HB	CYS	A	85	2.237	6.664	-3.626	1.00	0.00
ATOM	1275	HG	CYS	A	85	0.995	3.845	-3.325	1.00	0.00
ATOM	1276	N	ASN	A	86	-0.932	8.686	-3.217	1.00	0.00
ATOM	1277	CA	ASN	A	86	-1.027	10.142	-3.167	1.00	0.00
ATOM	1278	C	ASN	A	86	-0.078	10.722	-2.125	1.00	0.00
ATOM	1279	O	ASN	A	86	0.240	10.073	-1.128	1.00	0.00
ATOM	1280	CB	ASN	A	86	-2.463	10.568	-2.859	1.00	0.00
ATOM	1281	CG	ASN	A	86	-3.416	10.248	-3.994	1.00	0.00
ATOM	1282	OD1	ASN	A	86	-3.201	10.657	-5.135	1.00	0.00
ATOM	1283	ND2	ASN	A	86	-4.478	9.513	-3.684	1.00	0.00
ATOM	1284	H	ASN	A	86	-1.679	8.148	-2.884	1.00	0.00
ATOM	1285	HA	ASN	A	86	-0.750	10.524	-4.138	1.00	0.00
ATOM	1286	1HB	ASN	A	86	-2.803	10.053	-1.974	1.00	0.00
ATOM	1287	2HB	ASN	A	86	-2.486	11.633	-2.683	1.00	0.00
ATOM	1288	1HD2	ASN	A	86	-4.585	9.222	-2.755	1.00	0.00
ATOM	1289	2HD2	ASN	A	86	-5.111	9.290	-4.399	1.00	0.00
ATOM	1290	N	PHE	A	87	0.371	11.950	-2.364	1.00	0.00
ATOM	1291	CA	PHE	A	87	1.285	12.623	-1.447	1.00	0.00
ATOM	1292	C	PHE	A	87	0.732	13.980	-1.024	1.00	0.00
ATOM	1293	O	PHE	A	87	-0.345	14.387	-1.461	1.00	0.00
ATOM	1294	CB	PHE	A	87	2.656	12.802	-2.101	1.00	0.00
ATOM	1295	CG	PHE	A	87	3.527	11.584	-2.008	1.00	0.00
ATOM	1296	CD1	PHE	A	87	3.122	10.385	-2.570	1.00	0.00

ATOM	1297	CD2	PHE	A	87	4.748	11.637	-1.356	1.00	0.00
ATOM	1298	CE1	PHE	A	87	3.920	9.259	-2.485	1.00	0.00
ATOM	1299	CE2	PHE	A	87	5.551	10.515	-1.269	1.00	0.00
ATOM	1300	CZ	PHE	A	87	5.136	9.325	-1.834	1.00	0.00
ATOM	1301	H	PHE	A	87	0.082	12.415	-3.177	1.00	0.00
ATOM	1302	HA	PHE	A	87	1.392	12.002	-0.571	1.00	0.00
ATOM	1303	1HB	PHE	A	87	2.521	13.035	-3.146	1.00	0.00
ATOM	1304	2HB	PHE	A	87	3.172	13.620	-1.618	1.00	0.00
ATOM	1305	HD1	PHE	A	87	2.172	10.333	-3.081	1.00	0.00
ATOM	1306	HD2	PHE	A	87	5.073	12.567	-0.914	1.00	0.00
ATOM	1307	HE1	PHE	A	87	3.591	8.330	-2.928	1.00	0.00
ATOM	1308	HE2	PHE	A	87	6.501	10.569	-0.758	1.00	0.00
ATOM	1309	HZ	PHE	A	87	5.761	8.447	-1.766	1.00	0.00
ATOM	1310	N	SER	A	88	1.477	14.675	-0.171	1.00	0.00
ATOM	1311	CA	SER	A	88	1.064	15.986	0.312	1.00	0.00
ATOM	1312	C	SER	A	88	1.787	17.096	-0.448	1.00	0.00
ATOM	1313	O	SER	A	88	2.774	16.843	-1.140	1.00	0.00
ATOM	1314	CB	SER	A	88	1.346	16.110	1.811	1.00	0.00
ATOM	1315	OG	SER	A	88	0.183	15.834	2.573	1.00	0.00
ATOM	1316	H	SER	A	88	2.327	14.296	0.140	1.00	0.00
ATOM	1317	HA	SER	A	88	0.002	16.083	0.144	1.00	0.00
ATOM	1318	1HB	SER	A	88	2.118	15.409	2.089	1.00	0.00
ATOM	1319	2HB	SER	A	88	1.676	17.115	2.032	1.00	0.00
ATOM	1320	HG	SER	A	88	0.045	16.536	3.212	1.00	0.00
ATOM	1321	N	PRO	A	89	1.307	18.346	-0.328	1.00	0.00
ATOM	1322	CA	PRO	A	89	1.917	19.493	-1.008	1.00	0.00
ATOM	1323	C	PRO	A	89	3.385	19.668	-0.635	1.00	0.00



ATOM 1324	O	PRO A	89	4.179	20.183	-1.422	1.00	0.00
ATOM 1325	CB	PRO A	89	1.093	20.694	-0.521	1.00	0.00
ATOM 1326	CG	PRO A	89	0.366	20.211	0.689	1.00	0.00
ATOM 1327	CD	PRO A	89	0.141	18.742	0.475	1.00	0.00
ATOM 1328	HA	PRO A	89	1.830	19.407	-2.082	1.00	0.00
ATOM 1329	1HB	PRO A	89	1.754	21.513	-0.282	1.00	0.00
ATOM 1330	2HB	PRO A	89	0.405	20.997	-1.296	1.00	0.00
ATOM 1331	1HG	PRO A	89	0.971	20.373	1.569	1.00	0.00
ATOM 1332	2HG	PRO A	89	-0.578	20.726	0.781	1.00	0.00
ATOM 1333	1HD	PRO A	89	0.126	18.221	1.421	1.00	0.00
ATOM 1334	2HD	PRO A	89	-0.777	18.574	-0.067	1.00	0.00
ATOM 1335	N	LEU A	90	3.740	19.230	0.569	1.00	0.00
ATOM 1336	CA	LEU A	90	5.114	19.332	1.045	1.00	0.00
ATOM 1337	C	LEU A	90	6.020	18.359	0.298	1.00	0.00
ATOM 1338	O	LEU A	90	7.216	18.607	0.139	1.00	0.00
ATOM 1339	CB	LEU A	90	5.175	19.053	2.548	1.00	0.00
ATOM 1340	CG	LEU A	90	4.766	20.224	3.442	1.00	0.00
ATOM 1341	CD1	LEU A	90	3.253	20.278	3.588	1.00	0.00
ATOM 1342	CD2	LEU A	90	5.430	20.110	4.806	1.00	0.00
ATOM 1343	H	LEU A	90	3.061	18.825	1.149	1.00	0.00
ATOM 1344	HA	LEU A	90	5.454	20.340	0.860	1.00	0.00
ATOM 1345	1HB	LEU A	90	4.526	18.216	2.764	1.00	0.00
ATOM 1346	2HB	LEU A	90	6.188	18.776	2.800	1.00	0.00
ATOM 1347	HG	LEU A	90	5.090	21.148	2.987	1.00	0.00
ATOM 1348	1HD1	LEU A	90	2.829	20.810	2.749	1.00	0.00
ATOM 1349	2HD1	LEU A	90	2.997	20.790	4.504	1.00	0.00
ATOM 1350	3HD1	LEU A	90	2.857	19.274	3.615	1.00	0.00

ATOM	1351	1HD2	LEU	A	90	6.334	19.525	4.717	1.00	0.00
ATOM	1352	2HD2	LEU	A	90	4.755	19.627	5.497	1.00	0.00
ATOM	1353	3HD2	LEU	A	90	5.674	21.096	5.171	1.00	0.00
ATOM	1354	N	ALA	A	91	5.443	17.252	-0.159	1.00	0.00
ATOM	1355	CA	ALA	A	91	6.198	16.241	-0.889	1.00	0.00
ATOM	1356	C	ALA	A	91	6.838	16.829	-2.142	1.00	0.00
ATOM	1357	O	ALA	A	91	6.353	17.817	-2.693	1.00	0.00
ATOM	1358	CB	ALA	A	91	5.296	15.072	-1.256	1.00	0.00
ATOM	1359	H	ALA	A	91	4.487	17.112	0.000	1.00	0.00
ATOM	1360	HA	ALA	A	91	6.978	15.872	-0.239	1.00	0.00
ATOM	1361	1HB	ALA	A	91	5.895	14.263	-1.644	1.00	0.00
ATOM	1362	2HB	ALA	A	91	4.585	15.387	-2.006	1.00	0.00
ATOM	1363	3HB	ALA	A	91	4.764	14.738	-0.376	1.00	0.00
ATOM	1364	N	ARG	A	92	7.929	16.215	-2.586	1.00	0.00
ATOM	1365	CA	ARG	A	92	8.638	16.677	-3.774	1.00	0.00
ATOM	1366	C	ARG	A	92	9.806	15.753	-4.101	1.00	0.00
ATOM	1367	O	ARG	A	92	10.379	15.122	-3.213	1.00	0.00
ATOM	1368	CB	ARG	A	92	9.137	18.110	-3.573	1.00	0.00
ATOM	1369	CG	ARG	A	92	8.620	19.086	-4.615	1.00	0.00
ATOM	1370	CD	ARG	A	92	9.555	19.173	-5.811	1.00	0.00
ATOM	1371	NE	ARG	A	92	9.118	20.180	-6.775	1.00	0.00
ATOM	1372	CZ	ARG	A	92	8.144	19.985	-7.662	1.00	0.00
ATOM	1373	NH1	ARG	A	92	7.504	18.823	-7.708	1.00	0.00
ATOM	1374	NH2	ARG	A	92	7.809	20.953	-8.503	1.00	0.00
ATOM	1375	H	ARG	A	92	8.267	15.433	-2.103	1.00	0.00
ATOM	1376	HA	ARG	A	92	7.942	16.662	-4.600	1.00	0.00
ATOM	1377	1HB	ARG	A	92	8.821	18.455	-2.599	1.00	0.00

ATOM 1378	2HB	ARG	A	92	10.217	18.114	-3.612	1.00	0.00
ATOM 1379	1HG	ARG	A	92	7.649	18.756	-4.954	1.00	0.00
ATOM 1380	2HG	ARG	A	92	8.532	20.065	-4.165	1.00	0.00
ATOM 1381	1HD	ARG	A	92	10.544	19.431	-5.460	1.00	0.00
ATOM 1382	2HD	ARG	A	92	9.586	18.210	-6.298	1.00	0.00
ATOM 1383	HE	ARG	A	92	9.574	21.047	-6.763	1.00	0.00
ATOM 1384	1HH1	ARG	A	92	7.751	18.089	-7.077	1.00	0.00
ATOM 1385	2HH1	ARG	A	92	6.773	18.683	-8.376	1.00	0.00
ATOM 1386	1HH2	ARG	A	92	8.288	21.830	-8.471	1.00	0.00
ATOM 1387	2HH2	ARG	A	92	7.077	20.806	-9.169	1.00	0.00
ATOM 1388	N	ARG	A	93	10.155	15.679	-5.381	1.00	0.00
ATOM 1389	CA	ARG	A	93	11.257	14.832	-5.825	1.00	0.00
ATOM 1390	C	ARG	A	93	10.989	13.369	-5.487	1.00	0.00
ATOM 1391	O	ARG	A	93	11.918	12.593	-5.261	1.00	0.00
ATOM 1392	CB	ARG	A	93	12.569	15.285	-5.182	1.00	0.00
ATOM 1393	CG	ARG	A	93	13.160	16.533	-5.818	1.00	0.00
ATOM 1394	CD	ARG	A	93	12.985	17.752	-4.925	1.00	0.00
ATOM 1395	NE	ARG	A	93	13.889	18.837	-5.299	1.00	0.00
ATOM 1396	CZ	ARG	A	93	13.706	19.622	-6.358	1.00	0.00
ATOM 1397	NH1	ARG	A	93	12.656	19.446	-7.151	1.00	0.00
ATOM 1398	NH2	ARG	A	93	14.577	20.586	-6.626	1.00	0.00
ATOM 1399	H	ARG	A	93	9.661	16.206	-6.043	1.00	0.00
ATOM 1400	HA	ARG	A	93	11.339	14.931	-6.897	1.00	0.00
ATOM 1401	1HB	ARG	A	93	12.392	15.488	-4.136	1.00	0.00
ATOM 1402	2HB	ARG	A	93	13.291	14.487	-5.267	1.00	0.00
ATOM 1403	1HG	ARG	A	93	14.214	16.373	-5.989	1.00	0.00
ATOM 1404	2HG	ARG	A	93	12.664	16.714	-6.760	1.00	0.00

ATOM	1405	1HD	ARG	A	93	11.966	18.099	-5.008	1.00	0.00
ATOM	1406	2HD	ARG	A	93	13.185	17.465	-3.903	1.00	0.00
ATOM	1407	HE	ARG	A	93	14.672	18.989	-4.730	1.00	0.00
ATOM	1408	1HH1	ARG	A	93	11.995	18.721	-6.954	1.00	0.00
ATOM	1409	2HH1	ARG	A	93	12.524	20.039	-7.945	1.00	0.00
ATOM	1410	1HH2	ARG	A	93	15.369	20.722	-6.033	1.00	0.00
ATOM	1411	2HH2	ARG	A	93	14.440	21.174	-7.423	1.00	0.00
ATOM	1412	N	VAL	A	94	9.713	12.997	-5.454	1.00	0.00
ATOM	1413	CA	VAL	A	94	9.324	11.626	-5.144	1.00	0.00
ATOM	1414	C	VAL	A	94	9.379	10.747	-6.388	1.00	0.00
ATOM	1415	O	VAL	A	94	8.765	11.059	-7.409	1.00	0.00
ATOM	1416	CB	VAL	A	94	7.905	11.565	-4.547	1.00	0.00
ATOM	1417	CG1	VAL	A	94	7.573	10.150	-4.095	1.00	0.00
ATOM	1418	CG2	VAL	A	94	7.766	12.546	-3.392	1.00	0.00
ATOM	1419	H	VAL	A	94	9.016	13.659	-5.644	1.00	0.00
ATOM	1420	HA	VAL	A	94	10.018	11.240	-4.411	1.00	0.00
ATOM	1421	HB	VAL	A	94	7.201	11.846	-5.316	1.00	0.00
ATOM	1422	1HG1	VAL	A	94	6.507	10.056	-3.959	1.00	0.00
ATOM	1423	2HG1	VAL	A	94	8.075	9.944	-3.160	1.00	0.00
ATOM	1424	3HG1	VAL	A	94	7.904	9.446	-4.844	1.00	0.00
ATOM	1425	1HG2	VAL	A	94	8.547	13.291	-3.456	1.00	0.00
ATOM	1426	2HG2	VAL	A	94	7.852	12.015	-2.456	1.00	0.00
ATOM	1427	3HG2	VAL	A	94	6.803	13.030	-3.445	1.00	0.00
ATOM	1428	N	ASP	A	95	10.121	9.647	-6.298	1.00	0.00
ATOM	1429	CA	ASP	A	95	10.256	8.723	-7.418	1.00	0.00
ATOM	1430	C	ASP	A	95	9.344	7.514	-7.241	1.00	0.00
ATOM	1431	O	ASP	A	95	8.732	7.334	-6.188	1.00	0.00

ATOM 1432	CB	ASP	A	95	11.710	8.266	-7.555	1.00	0.00
ATOM 1433	CG	ASP	A	95	12.467	9.054	-8.606	1.00	0.00
ATOM 1434	OD1	ASP	A	95	13.620	9.450	-8.336	1.00	0.00
ATOM 1435	OD2	ASP	A	95	11.906	9.274	-9.700	1.00	0.00
ATOM 1436	H	ASP	A	95	10.587	9.453	-5.458	1.00	0.00
ATOM 1437	HA	ASP	A	95	9.968	9.248	-8.316	1.00	0.00
ATOM 1438	1HB	ASP	A	95	12.212	8.394	-6.607	1.00	0.00
ATOM 1439	2HB	ASP	A	95	11.730	7.222	-7.829	1.00	0.00
ATOM 1440	N	ARG	A	96	9.258	6.688	-8.280	1.00	0.00
ATOM 1441	CA	ARG	A	96	8.421	5.493	-8.240	1.00	0.00
ATOM 1442	C	ARG	A	96	9.064	4.411	-7.381	1.00	0.00
ATOM 1443	O	ARG	A	96	8.406	3.794	-6.544	1.00	0.00
ATOM 1444	CB	ARG	A	96	8.182	4.959	-9.656	1.00	0.00
ATOM 1445	CG	ARG	A	96	8.062	6.048	-10.709	1.00	0.00
ATOM 1446	CD	ARG	A	96	7.486	5.506	-12.008	1.00	0.00
ATOM 1447	NE	ARG	A	96	8.529	5.015	-12.906	1.00	0.00
ATOM 1448	CZ	ARG	A	96	8.363	4.847	-14.215	1.00	0.00
ATOM 1449	NH1	ARG	A	96	7.197	5.126	-14.785	1.00	0.00
ATOM 1450	NH2	ARG	A	96	9.365	4.397	-14.958	1.00	0.00
ATOM 1451	H	ARG	A	96	9.771	6.885	-9.091	1.00	0.00
ATOM 1452	HA	ARG	A	96	7.473	5.767	-7.803	1.00	0.00
ATOM 1453	1HB	ARG	A	96	9.006	4.315	-9.928	1.00	0.00
ATOM 1454	2HB	ARG	A	96	7.270	4.382	-9.660	1.00	0.00
ATOM 1455	1HG	ARG	A	96	7.413	6.825	-10.336	1.00	0.00
ATOM 1456	2HG	ARG	A	96	9.042	6.457	-10.904	1.00	0.00
ATOM 1457	1HD	ARG	A	96	6.812	4.695	-11.777	1.00	0.00
ATOM 1458	2HD	ARG	A	96	6.942	6.297	-12.503	1.00	0.00

ATOM 1459	HE	ARG A	96	9.400	4.799	-12.511	1.00	0.00
ATOM 1460	1HH1	ARG A	96	6.436	5.465	-14.231	1.00	0.00
ATOM 1461	2HH1	ARG A	96	7.079	4.998	-15.770	1.00	0.00
ATOM 1462	1HH2	ARG A	96	10.245	4.184	-14.534	1.00	0.00
ATOM 1463	2HH2	ARG A	96	9.240	4.270	-15.942	1.00	0.00
ATOM 1464	N	VAL A	97	10.357	4.187	-7.595	1.00	0.00
ATOM 1465	CA	VAL A	97	11.095	3.181	-6.842	1.00	0.00
ATOM 1466	C	VAL A	97	11.050	3.466	-5.344	1.00	0.00
ATOM 1467	O	VAL A	97	11.150	2.553	-4.525	1.00	0.00
ATOM 1468	CB	VAL A	97	12.566	3.109	-7.293	1.00	0.00
ATOM 1469	CG1	VAL A	97	13.262	1.914	-6.660	1.00	0.00
ATOM 1470	CG2	VAL A	97	12.659	3.046	-8.810	1.00	0.00
ATOM 1471	H	VAL A	97	10.825	4.714	-8.277	1.00	0.00
ATOM 1472	HA	VAL A	97	10.637	2.221	-7.030	1.00	0.00
ATOM 1473	HB	VAL A	97	13.068	4.006	-6.960	1.00	0.00
ATOM 1474	1HG1	VAL A	97	13.989	1.513	-7.350	1.00	0.00
ATOM 1475	2HG1	VAL A	97	12.531	1.154	-6.426	1.00	0.00
ATOM 1476	3HG1	VAL A	97	13.760	2.226	-5.754	1.00	0.00
ATOM 1477	1HG2	VAL A	97	13.502	2.434	-9.095	1.00	0.00
ATOM 1478	2HG2	VAL A	97	12.787	4.043	-9.205	1.00	0.00
ATOM 1479	3HG2	VAL A	97	11.752	2.615	-9.209	1.00	0.00
ATOM 1480	N	ALA A	98	10.902	4.740	-4.992	1.00	0.00
ATOM 1481	CA	ALA A	98	10.845	5.145	-3.593	1.00	0.00
ATOM 1482	C	ALA A	98	9.729	4.419	-2.851	1.00	0.00
ATOM 1483	O	ALA A	98	9.981	3.663	-1.912	1.00	0.00
ATOM 1484	CB	ALA A	98	10.658	6.651	-3.488	1.00	0.00
ATOM 1485	H	ALA A	98	10.830	5.424	-5.690	1.00	0.00

ATOM 1486	HA	ALA A	98	11.791	4.893	-3.134	1.00	0.00
ATOM 1487	1HB	ALA A	98	11.623	7.130	-3.421	1.00	0.00
ATOM 1488	2HB	ALA A	98	10.080	6.882	-2.606	1.00	0.00
ATOM 1489	3HB	ALA A	98	10.138	7.010	-4.364	1.00	0.00
ATOM 1490	N	ILE A	99	8.492	4.652	-3.278	1.00	0.00
ATOM 1491	CA	ILE A	99	7.336	4.018	-2.655	1.00	0.00
ATOM 1492	C	ILE A	99	7.307	2.519	-2.949	1.00	0.00
ATOM 1493	O	ILE A	99	6.726	1.740	-2.194	1.00	0.00
ATOM 1494	CB	ILE A	99	6.015	4.651	-3.138	1.00	0.00
ATOM 1495	CG1	ILE A	99	6.082	6.176	-3.024	1.00	0.00
ATOM 1496	CG2	ILE A	99	4.842	4.105	-2.336	1.00	0.00
ATOM 1497	CD1	ILE A	99	5.249	6.894	-4.062	1.00	0.00
ATOM 1498	H	ILE A	99	8.353	5.263	-4.032	1.00	0.00
ATOM 1499	HA	ILE A	99	7.412	4.163	-1.588	1.00	0.00
ATOM 1500	HB	ILE A	99	5.866	4.381	-4.172	1.00	0.00
ATOM 1501	1HG1	ILE A	99	5.724	6.473	-2.049	1.00	0.00
ATOM 1502	2HG1	ILE A	99	7.106	6.497	-3.140	1.00	0.00
ATOM 1503	1HG2	ILE A	99	4.159	4.909	-2.103	1.00	0.00
ATOM 1504	2HG2	ILE A	99	5.206	3.665	-1.420	1.00	0.00
ATOM 1505	3HG2	ILE A	99	4.328	3.355	-2.917	1.00	0.00
ATOM 1506	1HD1	ILE A	99	4.202	6.688	-3.890	1.00	0.00
ATOM 1507	2HD1	ILE A	99	5.526	6.550	-5.047	1.00	0.00
ATOM 1508	3HD1	ILE A	99	5.422	7.958	-3.990	1.00	0.00
ATOM 1509	N	TYR A	100	7.941	2.125	-4.048	1.00	0.00
ATOM 1510	CA	TYR A	100	7.991	0.723	-4.443	1.00	0.00
ATOM 1511	C	TYR A	100	8.951	-0.061	-3.553	1.00	0.00
ATOM 1512	O	TYR A	100	8.669	-1.194	-3.164	1.00	0.00

ATOM	1513	CB	TYR A 100	8.425	0.601	-5.905	1.00	0.00
ATOM	1514	CG	TYR A 100	8.275	-0.793	-6.471	1.00	0.00
ATOM	1515	CD1	TYR A 100	7.065	-1.221	-7.004	1.00	0.00
ATOM	1516	CD2	TYR A 100	9.345	-1.680	-6.475	1.00	0.00
ATOM	1517	CE1	TYR A 100	6.926	-2.494	-7.523	1.00	0.00
ATOM	1518	CE2	TYR A 100	9.213	-2.954	-6.993	1.00	0.00
ATOM	1519	CZ	TYR A 100	8.003	-3.356	-7.515	1.00	0.00
ATOM	1520	OH	TYR A 100	7.867	-4.624	-8.033	1.00	0.00
ATOM	1521	H	TYR A 100	8.387	2.793	-4.610	1.00	0.00
ATOM	1522	HA	TYR A 100	6.999	0.310	-4.335	1.00	0.00
ATOM	1523	1HB	TYR A 100	7.825	1.268	-6.506	1.00	0.00
ATOM	1524	2HB	TYR A 100	9.463	0.885	-5.989	1.00	0.00
ATOM	1525	HD1	TYR A 100	6.225	-0.543	-7.008	1.00	0.00
ATOM	1526	HD2	TYR A 100	10.292	-1.361	-6.064	1.00	0.00
ATOM	1527	HE1	TYR A 100	5.978	-2.808	-7.932	1.00	0.00
ATOM	1528	HE2	TYR A 100	10.057	-3.629	-6.988	1.00	0.00
ATOM	1529	HH	TYR A 100	8.068	-4.610	-8.972	1.00	0.00
ATOM	1530	N	GLU A 101	10.088	0.552	-3.240	1.00	0.00
ATOM	1531	CA	GLU A 101	11.094	-0.087	-2.399	1.00	0.00
ATOM	1532	C	GLU A 101	10.627	-0.169	-0.948	1.00	0.00
ATOM	1533	O	GLU A 101	10.641	-1.239	-0.341	1.00	0.00
ATOM	1534	CB	GLU A 101	12.416	0.681	-2.479	1.00	0.00
ATOM	1535	CG	GLU A 101	13.349	0.171	-3.566	1.00	0.00
ATOM	1536	CD	GLU A 101	14.802	0.176	-3.134	1.00	0.00
ATOM	1537	OE1	GLU A 101	15.437	-0.900	-3.173	1.00	0.00
ATOM	1538	OE2	GLU A 101	15.307	1.255	-2.759	1.00	0.00
ATOM	1539	H	GLU A 101	10.256	1.453	-3.584	1.00	0.00



ATOM 1540	HA	GLU A 101	11.249	-1.089	-2.771	1.00	0.00
ATOM 1541	1HB	GLU A 101	12.203	1.721	-2.676	1.00	0.00
ATOM 1542	2HB	GLU A 101	12.925	0.600	-1.531	1.00	0.00
ATOM 1543	1HG	GLU A 101	13.068	-0.840	-3.818	1.00	0.00
ATOM 1544	2HG	GLU A 101	13.244	0.801	-4.437	1.00	0.00
ATOM 1545	N	GLU A 102	10.215	0.969	-0.398	1.00	0.00
ATOM 1546	CA	GLU A 102	9.745	1.025	0.982	1.00	0.00
ATOM 1547	C	GLU A 102	8.593	0.051	1.210	1.00	0.00
ATOM 1548	O	GLU A 102	8.400	-0.450	2.317	1.00	0.00
ATOM 1549	CB	GLU A 102	9.301	2.446	1.334	1.00	0.00
ATOM 1550	CG	GLU A 102	10.428	3.321	1.860	1.00	0.00
ATOM 1551	CD	GLU A 102	11.477	3.618	0.807	1.00	0.00
ATOM 1552	OE1	GLU A 102	11.462	4.737	0.253	1.00	0.00
ATOM 1553	OE2	GLU A 102	12.313	2.730	0.537	1.00	0.00
ATOM 1554	H	GLU A 102	10.228	1.790	-0.932	1.00	0.00
ATOM 1555	HA	GLU A 102	10.567	0.746	1.623	1.00	0.00
ATOM 1556	1HB	GLU A 102	8.895	2.914	0.450	1.00	0.00
ATOM 1557	2HB	GLU A 102	8.531	2.395	2.090	1.00	0.00
ATOM 1558	1HG	GLU A 102	10.009	4.257	2.203	1.00	0.00
ATOM 1559	2HG	GLU A 102	10.902	2.815	2.689	1.00	0.00
ATOM 1560	N	PHE A 103	7.828	-0.213	0.155	1.00	0.00
ATOM 1561	CA	PHE A 103	6.697	-1.128	0.242	1.00	0.00
ATOM 1562	C	PHE A 103	7.169	-2.578	0.281	1.00	0.00
ATOM 1563	O	PHE A 103	6.700	-3.372	1.097	1.00	0.00
ATOM 1564	CB	PHE A 103	5.755	-0.919	-0.946	1.00	0.00
ATOM 1565	CG	PHE A 103	4.486	-1.720	-0.854	1.00	0.00
ATOM 1566	CD1	PHE A 103	3.589	-1.505	0.179	1.00	0.00

ATOM 1567	CD2	PHE A 103	4.192	-2.686	-1.803	1.00	0.00
ATOM 1568	CE1	PHE A 103	2.422	-2.240	0.265	1.00	0.00
ATOM 1569	CE2	PHE A 103	3.027	-3.424	-1.722	1.00	0.00
ATOM 1570	CZ	PHE A 103	2.139	-3.200	-0.687	1.00	0.00
ATOM 1571	H	PHE A 103	8.031	0.216	-0.702	1.00	0.00
ATOM 1572	HA	PHE A 103	6.164	-0.910	1.155	1.00	0.00
ATOM 1573	1HB	PHE A 103	5.485	0.124	-1.003	1.00	0.00
ATOM 1574	2HB	PHE A 103	6.265	-1.205	-1.855	1.00	0.00
ATOM 1575	HD1	PHE A 103	3.809	-0.754	0.923	1.00	0.00
ATOM 1576	HD2	PHE A 103	4.885	-2.862	-2.613	1.00	0.00
ATOM 1577	HE1	PHE A 103	1.730	-2.063	1.076	1.00	0.00
ATOM 1578	HE2	PHE A 103	2.809	-4.175	-2.467	1.00	0.00
ATOM 1579	HZ	PHE A 103	1.228	-3.776	-0.621	1.00	0.00
ATOM 1580	N	LEU A 104	8.099	-2.915	-0.607	1.00	0.00
ATOM 1581	CA	LEU A 104	8.636	-4.270	-0.678	1.00	0.00
ATOM 1582	C	LEU A 104	9.243	-4.693	0.657	1.00	0.00
ATOM 1583	O	LEU A 104	8.934	-5.767	1.176	1.00	0.00
ATOM 1584	CB	LEU A 104	9.692	-4.363	-1.782	1.00	0.00
ATOM 1585	CG	LEU A 104	9.158	-4.183	-3.204	1.00	0.00
ATOM 1586	CD1	LEU A 104	10.271	-3.734	-4.140	1.00	0.00
ATOM 1587	CD2	LEU A 104	8.525	-5.473	-3.703	1.00	0.00
ATOM 1588	H	LEU A 104	8.431	-2.237	-1.231	1.00	0.00
ATOM 1589	HA	LEU A 104	7.822	-4.937	-0.916	1.00	0.00
ATOM 1590	1HB	LEU A 104	10.439	-3.604	-1.600	1.00	0.00
ATOM 1591	2HB	LEU A 104	10.164	-5.332	-1.719	1.00	0.00
ATOM 1592	HG	LEU A 104	8.397	-3.416	-3.202	1.00	0.00
ATOM 1593	1HD1	LEU A 104	10.173	-4.244	-5.088	1.00	0.00

ATOM	1594	2HD1	LEU	A	104	11.228	-3.975	-3.701	1.00	0.00
ATOM	1595	3HD1	LEU	A	104	10.204	-2.669	-4.296	1.00	0.00
ATOM	1596	1HD2	LEU	A	104	9.103	-6.316	-3.353	1.00	0.00
ATOM	1597	2HD2	LEU	A	104	8.508	-5.471	-4.783	1.00	0.00
ATOM	1598	3HD2	LEU	A	104	7.516	-5.548	-3.326	1.00	0.00
ATOM	1599	N	ARG	A	105	10.108	-3.847	1.207	1.00	0.00
ATOM	1600	CA	ARG	A	105	10.760	-4.137	2.481	1.00	0.00
ATOM	1601	C	ARG	A	105	9.732	-4.436	3.569	1.00	0.00
ATOM	1602	O	ARG	A	105	9.804	-5.467	4.237	1.00	0.00
ATOM	1603	CB	ARG	A	105	11.644	-2.961	2.905	1.00	0.00
ATOM	1604	CG	ARG	A	105	13.115	-3.157	2.578	1.00	0.00
ATOM	1605	CD	ARG	A	105	14.006	-2.748	3.740	1.00	0.00
ATOM	1606	NE	ARG	A	105	15.367	-3.258	3.593	1.00	0.00
ATOM	1607	CZ	ARG	A	105	16.331	-3.069	4.493	1.00	0.00
ATOM	1608	NH1	ARG	A	105	16.087	-2.384	5.603	1.00	0.00
ATOM	1609	NH2	ARG	A	105	17.541	-3.567	4.282	1.00	0.00
ATOM	1610	H	ARG	A	105	10.315	-3.008	0.744	1.00	0.00
ATOM	1611	HA	ARG	A	105	11.382	-5.008	2.343	1.00	0.00
ATOM	1612	1HB	ARG	A	105	11.301	-2.069	2.402	1.00	0.00
ATOM	1613	2HB	ARG	A	105	11.548	-2.820	3.972	1.00	0.00
ATOM	1614	1HG	ARG	A	105	13.289	-4.200	2.356	1.00	0.00
ATOM	1615	2HG	ARG	A	105	13.365	-2.557	1.715	1.00	0.00
ATOM	1616	1HD	ARG	A	105	14.039	-1.670	3.789	1.00	0.00
ATOM	1617	2HD	ARG	A	105	13.583	-3.135	4.655	1.00	0.00
ATOM	1618	HE	ARG	A	105	15.575	-3.767	2.782	1.00	0.00
ATOM	1619	1HH1	ARG	A	105	15.176	-2.007	5.769	1.00	0.00
ATOM	1620	2HH1	ARG	A	105	16.813	-2.248	6.275	1.00	0.00

ATOM 1621	1HH2	ARG	A	105	17.731	-4.083	3.446	1.00	0.00
ATOM 1622	2HH2	ARG	A	105	18.265	-3.425	4.957	1.00	0.00
ATOM 1623	N	MET	A	106	8.778	-3.527	3.744	1.00	0.00
ATOM 1624	CA	MET	A	106	7.738	-3.695	4.752	1.00	0.00
ATOM 1625	C	MET	A	106	6.863	-4.905	4.440	1.00	0.00
ATOM 1626	O	MET	A	106	6.283	-5.512	5.341	1.00	0.00
ATOM 1627	CB	MET	A	106	6.874	-2.435	4.837	1.00	0.00
ATOM 1628	CG	MET	A	106	6.280	-2.197	6.216	1.00	0.00
ATOM 1629	SD	MET	A	106	7.230	-1.011	7.185	1.00	0.00
ATOM 1630	CE	MET	A	106	6.872	0.509	6.309	1.00	0.00
ATOM 1631	H	MET	A	106	8.774	-2.724	3.181	1.00	0.00
ATOM 1632	HA	MET	A	106	8.222	-3.852	5.704	1.00	0.00
ATOM 1633	1HB	MET	A	106	7.479	-1.579	4.576	1.00	0.00
ATOM 1634	2HB	MET	A	106	6.062	-2.520	4.129	1.00	0.00
ATOM 1635	1HG	MET	A	106	5.274	-1.822	6.101	1.00	0.00
ATOM 1636	2HG	MET	A	106	6.253	-3.137	6.748	1.00	0.00
ATOM 1637	1HE	MET	A	106	6.286	0.287	5.429	1.00	0.00
ATOM 1638	2HE	MET	A	106	7.797	0.982	6.015	1.00	0.00
ATOM 1639	3HE	MET	A	106	6.316	1.174	6.953	1.00	0.00
ATOM 1640	N	THR	A	107	6.771	-5.253	3.161	1.00	0.00
ATOM 1641	CA	THR	A	107	5.966	-6.391	2.734	1.00	0.00
ATOM 1642	C	THR	A	107	6.823	-7.645	2.573	1.00	0.00
ATOM 1643	O	THR	A	107	6.458	-8.568	1.845	1.00	0.00
ATOM 1644	CB	THR	A	107	5.257	-6.073	1.418	1.00	0.00
ATOM 1645	OG1	THR	A	107	6.192	-5.689	0.426	1.00	0.00
ATOM 1646	CG2	THR	A	107	4.239	-4.960	1.542	1.00	0.00
ATOM 1647	H	THR	A	107	7.257	-4.732	2.487	1.00	0.00

ATOM 1648	HA	THR A 107	5.224	-6.575	3.497	1.00	0.00
ATOM 1649	HB	THR A 107	4.740	-6.958	1.075	1.00	0.00
ATOM 1650	HG1	THR A 107	5.726	-5.422	-0.370	1.00	0.00
ATOM 1651	1HG2	THR A 107	4.417	-4.220	0.776	1.00	0.00
ATOM 1652	2HG2	THR A 107	4.326	-4.500	2.515	1.00	0.00
ATOM 1653	3HG2	THR A 107	3.244	-5.368	1.424	1.00	0.00
ATOM 1654	N	HIS A 108	7.965	-7.674	3.258	1.00	0.00
ATOM 1655	CA	HIS A 108	8.869	-8.817	3.190	1.00	0.00
ATOM 1656	C	HIS A 108	9.237	-9.146	1.745	1.00	0.00
ATOM 1657	O	HIS A 108	8.817	-10.170	1.204	1.00	0.00
ATOM 1658	CB	HIS A 108	8.231	-10.036	3.858	1.00	0.00
ATOM 1659	CG	HIS A 108	9.224	-11.064	4.306	1.00	0.00
ATOM 1660	ND1	HIS A 108	9.576	-11.245	5.627	1.00	0.00
ATOM 1661	CD2	HIS A 108	9.942	-11.970	3.600	1.00	0.00
ATOM 1662	CE1	HIS A 108	10.466	-12.217	5.714	1.00	0.00
ATOM 1663	NE2	HIS A 108	10.705	-12.674	4.498	1.00	0.00
ATOM 1664	H	HIS A 108	8.203	-6.910	3.823	1.00	0.00
ATOM 1665	HA	HIS A 108	9.771	-8.557	3.726	1.00	0.00
ATOM 1666	1HB	HIS A 108	7.675	-9.714	4.725	1.00	0.00
ATOM 1667	2HB	HIS A 108	7.556	-10.508	3.159	1.00	0.00
ATOM 1668	HD1	HIS A 108	9.226	-10.736	6.387	1.00	0.00
ATOM 1669	HD2	HIS A 108	9.916	-12.113	2.529	1.00	0.00
ATOM 1670	HE1	HIS A 108	10.922	-12.578	6.624	1.00	0.00
ATOM 1671	HE2	HIS A 108	11.240	-13.468	4.289	1.00	0.00
ATOM 1672	N	ASN A 109	10.022	-8.272	1.124	1.00	0.00
ATOM 1673	CA	ASN A 109	10.446	-8.470	-0.257	1.00	0.00
ATOM 1674	C	ASN A 109	9.243	-8.547	-1.192	1.00	0.00

ATOM 1675	O	ASN A 109	9.252	-9.294	-2.171	1.00	0.00
ATOM 1676	CB	ASN A 109	11.280	-9.748	-0.378	1.00	0.00
ATOM 1677	CG	ASN A 109	12.573	-9.671	0.410	1.00	0.00
ATOM 1678	OD1	ASN A 109	12.562	-9.621	1.640	1.00	0.00
ATOM 1679	ND2	ASN A 109	13.696	-9.661	-0.298	1.00	0.00
ATOM 1680	H	ASN A 109	10.326	-7.475	1.607	1.00	0.00
ATOM 1681	HA	ASN A 109	11.055	-7.626	-0.543	1.00	0.00
ATOM 1682	1HB	ASN A 109	10.703	-10.582	-0.006	1.00	0.00
ATOM 1683	2HB	ASN A 109	11.521	-9.916	-1.417	1.00	0.00
ATOM 1684	1HD2	ASN A 109	13.629	-9.703	-1.274	1.00	0.00
ATOM 1685	2HD2	ASN A 109	14.547	-9.612	0.185	1.00	0.00
ATOM 1686	N	GLY A 110	8.207	-7.774	-0.883	1.00	0.00
ATOM 1687	CA	GLY A 110	7.012	-7.770	-1.706	1.00	0.00
ATOM 1688	C	GLY A 110	6.379	-9.142	-1.815	1.00	0.00
ATOM 1689	O	GLY A 110	6.174	-9.653	-2.917	1.00	0.00
ATOM 1690	H	GLY A 110	8.256	-7.199	-0.089	1.00	0.00
ATOM 1691	1HA	GLY A 110	6.294	-7.089	-1.276	1.00	0.00
ATOM 1692	2HA	GLY A 110	7.271	-7.425	-2.697	1.00	0.00
ATOM 1693	N	THR A 111	6.068	-9.741	-0.671	1.00	0.00
ATOM 1694	CA	THR A 111	5.455	-11.064	-0.643	1.00	0.00
ATOM 1695	C	THR A 111	4.274	-11.100	0.320	1.00	0.00
ATOM 1696	O	THR A 111	3.210	-11.624	-0.007	1.00	0.00
ATOM 1697	CB	THR A 111	6.486	-12.119	-0.240	1.00	0.00
ATOM 1698	OG1	THR A 111	6.983	-11.862	1.062	1.00	0.00
ATOM 1699	CG2	THR A 111	7.671	-12.188	-1.179	1.00	0.00
ATOM 1700	H	THR A 111	6.256	-9.284	0.175	1.00	0.00
ATOM 1701	HA	THR A 111	5.100	-11.285	-1.638	1.00	0.00

ATOM 1702	HB	THR A 111	6.010	-13.088	-0.236	1.00	0.00
ATOM 1703	HG1	THR A 111	7.332	-10.969	1.102	1.00	0.00
ATOM 1704	1HG2	THR A 111	8.432	-12.823	-0.750	1.00	0.00
ATOM 1705	2HG2	THR A 111	8.071	-11.196	-1.326	1.00	0.00
ATOM 1706	3HG2	THR A 111	7.355	-12.595	-2.128	1.00	0.00
ATOM 1707	N	GLN A 112	4.468	-10.541	1.511	1.00	0.00
ATOM 1708	CA	GLN A 112	3.415	-10.515	2.521	1.00	0.00
ATOM 1709	C	GLN A 112	3.264	-9.121	3.119	1.00	0.00
ATOM 1710	O	GLN A 112	4.168	-8.617	3.786	1.00	0.00
ATOM 1711	CB	GLN A 112	3.716	-11.527	3.628	1.00	0.00
ATOM 1712	CG	GLN A 112	2.583	-11.691	4.627	1.00	0.00
ATOM 1713	CD	GLN A 112	2.952	-12.604	5.781	1.00	0.00
ATOM 1714	OE1	GLN A 112	3.914	-13.367	5.701	1.00	0.00
ATOM 1715	NE2	GLN A 112	2.184	-12.530	6.862	1.00	0.00
ATOM 1716	H	GLN A 112	5.338	-10.140	1.717	1.00	0.00
ATOM 1717	HA	GLN A 112	2.489	-10.789	2.039	1.00	0.00
ATOM 1718	1HB	GLN A 112	3.911	-12.489	3.176	1.00	0.00
ATOM 1719	2HB	GLN A 112	4.596	-11.206	4.163	1.00	0.00
ATOM 1720	1HG	GLN A 112	2.328	-10.720	5.025	1.00	0.00
ATOM 1721	2HG	GLN A 112	1.726	-12.107	4.117	1.00	0.00
ATOM 1722	1HE2	GLN A 112	1.434	-11.901	6.855	1.00	0.00
ATOM 1723	2HE2	GLN A 112	2.399	-13.110	7.622	1.00	0.00
ATOM 1724	N	LEU A 113	2.110	-8.504	2.881	1.00	0.00
ATOM 1725	CA	LEU A 113	1.834	-7.170	3.399	1.00	0.00
ATOM 1726	C	LEU A 113	1.170	-7.255	4.771	1.00	0.00
ATOM 1727	O	LEU A 113	-0.045	-7.423	4.873	1.00	0.00
ATOM 1728	CB	LEU A 113	0.938	-6.397	2.423	1.00	0.00

ATOM 1729	CG	LEU A 113	0.497	-4.999	2.878	1.00	0.00
ATOM 1730	CD1	LEU A 113	-0.765	-5.083	3.722	1.00	0.00
ATOM 1731	CD2	LEU A 113	1.608	-4.295	3.647	1.00	0.00
ATOM 1732	H	LEU A 113	1.427	-8.959	2.345	1.00	0.00
ATOM 1733	HA	LEU A 113	2.775	-6.651	3.500	1.00	0.00
ATOM 1734	1HB	LEU A 113	1.471	-6.294	1.490	1.00	0.00
ATOM 1735	2HB	LEU A 113	0.051	-6.986	2.244	1.00	0.00
ATOM 1736	HG	LEU A 113	0.270	-4.404	2.006	1.00	0.00
ATOM 1737	1HD1	LEU A 113	-0.509	-4.983	4.766	1.00	0.00
ATOM 1738	2HD1	LEU A 113	-1.245	-6.037	3.559	1.00	0.00
ATOM 1739	3HD1	LEU A 113	-1.440	-4.287	3.439	1.00	0.00
ATOM 1740	1HD2	LEU A 113	2.429	-4.082	2.979	1.00	0.00
ATOM 1741	2HD2	LEU A 113	1.953	-4.929	4.449	1.00	0.00
ATOM 1742	3HD2	LEU A 113	1.231	-3.370	4.058	1.00	0.00
ATOM 1743	N	LEU A 114	1.980	-7.142	5.821	1.00	0.00
ATOM 1744	CA	LEU A 114	1.479	-7.210	7.190	1.00	0.00
ATOM 1745	C	LEU A 114	0.847	-8.569	7.472	1.00	0.00
ATOM 1746	O	LEU A 114	1.467	-9.436	8.088	1.00	0.00
ATOM 1747	CB	LEU A 114	0.462	-6.093	7.442	1.00	0.00
ATOM 1748	CG	LEU A 114	1.053	-4.684	7.515	1.00	0.00
ATOM 1749	CD1	LEU A 114	-0.055	-3.640	7.512	1.00	0.00
ATOM 1750	CD2	LEU A 114	1.926	-4.536	8.753	1.00	0.00
ATOM 1751	H	LEU A 114	2.939	-7.013	5.670	1.00	0.00
ATOM 1752	HA	LEU A 114	2.319	-7.074	7.854	1.00	0.00
ATOM 1753	1HB	LEU A 114	-0.270	-6.114	6.648	1.00	0.00
ATOM 1754	2HB	LEU A 114	-0.041	-6.297	8.376	1.00	0.00
ATOM 1755	HG	LEU A 114	1.671	-4.517	6.646	1.00	0.00



ATOM 1756	1HD1	LEU	A	114	0.181	-2.862	8.223	1.00	0.00
ATOM 1757	2HD1	LEU	A	114	-0.990	-4.106	7.783	1.00	0.00
ATOM 1758	3HD1	LEU	A	114	-0.140	-3.211	6.525	1.00	0.00
ATOM 1759	1HD2	LEU	A	114	2.794	-3.942	8.511	1.00	0.00
ATOM 1760	2HD2	LEU	A	114	2.240	-5.513	9.092	1.00	0.00
ATOM 1761	3HD2	LEU	A	114	1.361	-4.049	9.535	1.00	0.00
ATOM 1762	N	ASN	A	115	-0.388	-8.751	7.017	1.00	0.00
ATOM 1763	CA	ASN	A	115	-1.102	-10.007	7.220	1.00	0.00
ATOM 1764	C	ASN	A	115	-1.870	-10.404	5.963	1.00	0.00
ATOM 1765	O	ASN	A	115	-2.930	-11.025	6.043	1.00	0.00
ATOM 1766	CB	ASN	A	115	-2.062	-9.885	8.405	1.00	0.00
ATOM 1767	CG	ASN	A	115	-1.442	-10.367	9.702	1.00	0.00
ATOM 1768	OD1	ASN	A	115	-1.795	-11.429	10.214	1.00	0.00
ATOM 1769	ND2	ASN	A	115	-0.512	-9.587	10.240	1.00	0.00
ATOM 1770	H	ASN	A	115	-0.831	-8.023	6.533	1.00	0.00
ATOM 1771	HA	ASN	A	115	-0.371	-10.770	7.438	1.00	0.00
ATOM 1772	1HB	ASN	A	115	-2.346	-8.850	8.526	1.00	0.00
ATOM 1773	2HB	ASN	A	115	-2.946	-10.474	8.208	1.00	0.00
ATOM 1774	1HD2	ASN	A	115	-0.280	-8.755	9.775	1.00	0.00
ATOM 1775	2HD2	ASN	A	115	-0.094	-9.874	11.078	1.00	0.00
ATOM 1776	N	PHE	A	116	-1.327	-10.043	4.805	1.00	0.00
ATOM 1777	CA	PHE	A	116	-1.961	-10.363	3.532	1.00	0.00
ATOM 1778	C	PHE	A	116	-0.919	-10.731	2.480	1.00	0.00
ATOM 1779	O	PHE	A	116	-0.239	-9.861	1.935	1.00	0.00
ATOM 1780	CB	PHE	A	116	-2.796	-9.178	3.043	1.00	0.00
ATOM 1781	CG	PHE	A	116	-4.154	-9.094	3.683	1.00	0.00
ATOM 1782	CD1	PHE	A	116	-5.286	-9.495	2.991	1.00	0.00

ATOM 1783	CD2	PHE A 116	-4.296	-8.614	4.975	1.00	0.00
ATOM 1784	CE1	PHE A 116	-6.535	-9.419	3.577	1.00	0.00
ATOM 1785	CE2	PHE A 116	-5.543	-8.536	5.566	1.00	0.00
ATOM 1786	CZ	PHE A 116	-6.664	-8.938	4.865	1.00	0.00
ATOM 1787	H	PHE A 116	-0.480	-9.550	4.807	1.00	0.00
ATOM 1788	HA	PHE A 116	-2.612	-11.210	3.688	1.00	0.00
ATOM 1789	1HB	PHE A 116	-2.271	-8.261	3.261	1.00	0.00
ATOM 1790	2HB	PHE A 116	-2.936	-9.262	1.975	1.00	0.00
ATOM 1791	HD1	PHE A 116	-5.186	-9.872	1.985	1.00	0.00
ATOM 1792	HD2	PHE A 116	-3.420	-8.299	5.523	1.00	0.00
ATOM 1793	HE1	PHE A 116	-7.410	-9.733	3.028	1.00	0.00
ATOM 1794	HE2	PHE A 116	-5.641	-8.159	6.573	1.00	0.00
ATOM 1795	HZ	PHE A 116	-7.640	-8.877	5.325	1.00	0.00
ATOM 1796	N	THR A 117	-0.799	-12.024	2.199	1.00	0.00
ATOM 1797	CA	THR A 117	0.160	-12.506	1.211	1.00	0.00
ATOM 1798	C	THR A 117	-0.247	-12.074	-0.193	1.00	0.00
ATOM 1799	O	THR A 117	-1.316	-12.444	-0.681	1.00	0.00
ATOM 1800	CB	THR A 117	0.270	-14.031	1.276	1.00	0.00
ATOM 1801	OG1	THR A 117	-0.996	-14.633	1.073	1.00	0.00
ATOM 1802	CG2	THR A 117	0.815	-14.536	2.594	1.00	0.00
ATOM 1803	H	THR A 117	-1.369	-12.671	2.665	1.00	0.00
ATOM 1804	HA	THR A 117	1.122	-12.074	1.443	1.00	0.00
ATOM 1805	HB	THR A 117	0.935	-14.366	0.492	1.00	0.00
ATOM 1806	HG1	THR A 117	-1.187	-14.671	0.134	1.00	0.00
ATOM 1807	1HG2	THR A 117	1.754	-14.047	2.807	1.00	0.00
ATOM 1808	2HG2	THR A 117	0.971	-15.604	2.532	1.00	0.00
ATOM 1809	3HG2	THR A 117	0.109	-14.320	3.382	1.00	0.00

ATOM 1810	N	LEU A 118	0.609	-11.290	-0.842	1.00	0.00
ATOM 1811	CA	LEU A 118	0.331	-10.811	-2.191	1.00	0.00
ATOM 1812	C	LEU A 118	1.511	-11.080	-3.119	1.00	0.00
ATOM 1813	O	LEU A 118	2.638	-11.285	-2.667	1.00	0.00
ATOM 1814	CB	LEU A 118	0.005	-9.316	-2.171	1.00	0.00
ATOM 1815	CG	LEU A 118	1.085	-8.420	-1.563	1.00	0.00
ATOM 1816	CD1	LEU A 118	2.060	-7.955	-2.634	1.00	0.00
ATOM 1817	CD2	LEU A 118	0.453	-7.228	-0.861	1.00	0.00
ATOM 1818	H	LEU A 118	1.446	-11.028	-0.403	1.00	0.00
ATOM 1819	HA	LEU A 118	-0.528	-11.351	-2.560	1.00	0.00
ATOM 1820	1HB	LEU A 118	-0.168	-8.995	-3.188	1.00	0.00
ATOM 1821	2HB	LEU A 118	-0.905	-9.176	-1.609	1.00	0.00
ATOM 1822	HG	LEU A 118	1.640	-8.984	-0.830	1.00	0.00
ATOM 1823	1HD1	LEU A 118	2.941	-8.580	-2.613	1.00	0.00
ATOM 1824	2HD1	LEU A 118	2.341	-6.930	-2.444	1.00	0.00
ATOM 1825	3HD1	LEU A 118	1.590	-8.027	-3.603	1.00	0.00
ATOM 1826	1HD2	LEU A 118	1.125	-6.384	-0.908	1.00	0.00
ATOM 1827	2HD2	LEU A 118	0.260	-7.478	0.172	1.00	0.00
ATOM 1828	3HD2	LEU A 118	-0.476	-6.977	-1.350	1.00	0.00
ATOM 1829	N	ASP A 119	1.241	-11.081	-4.421	1.00	0.00
ATOM 1830	CA	ASP A 119	2.276	-11.330	-5.418	1.00	0.00
ATOM 1831	C	ASP A 119	3.309	-10.206	-5.429	1.00	0.00
ATOM 1832	O	ASP A 119	3.065	-9.120	-4.904	1.00	0.00
ATOM 1833	CB	ASP A 119	1.647	-11.476	-6.806	1.00	0.00
ATOM 1834	CG	ASP A 119	1.786	-12.882	-7.358	1.00	0.00
ATOM 1835	OD1	ASP A 119	0.771	-13.609	-7.391	1.00	0.00
ATOM 1836	OD2	ASP A 119	2.909	-13.253	-7.759	1.00	0.00

ATOM 1837	H	ASP A 119	0.323	-10.914	-4.718	1.00	0.00
ATOM 1838	HA	ASP A 119	2.770	-12.253	-5.157	1.00	0.00
ATOM 1839	1HB	ASP A 119	0.596	-11.236	-6.745	1.00	0.00
ATOM 1840	2HB	ASP A 119	2.128	-10.791	-7.489	1.00	0.00
ATOM 1841	N	ARG A 120	4.461	-10.477	-6.033	1.00	0.00
ATOM 1842	CA	ARG A 120	5.532	-9.491	-6.117	1.00	0.00
ATOM 1843	C	ARG A 120	5.681	-8.974	-7.544	1.00	0.00
ATOM 1844	O	ARG A 120	5.925	-7.788	-7.763	1.00	0.00
ATOM 1845	CB	ARG A 120	6.854	-10.098	-5.643	1.00	0.00
ATOM 1846	CG	ARG A 120	7.877	-9.061	-5.209	1.00	0.00
ATOM 1847	CD	ARG A 120	9.240	-9.323	-5.831	1.00	0.00
ATOM 1848	NE	ARG A 120	9.177	-9.368	-7.289	1.00	0.00
ATOM 1849	CZ	ARG A 120	10.239	-9.231	-8.082	1.00	0.00
ATOM 1850	NH1	ARG A 120	11.445	-9.045	-7.560	1.00	0.00
ATOM 1851	NH2	ARG A 120	10.094	-9.282	-9.398	1.00	0.00
ATOM 1852	H	ARG A 120	4.593	-11.362	-6.434	1.00	0.00
ATOM 1853	HA	ARG A 120	5.274	-8.665	-5.472	1.00	0.00
ATOM 1854	1HB	ARG A 120	6.656	-10.751	-4.805	1.00	0.00
ATOM 1855	2HB	ARG A 120	7.279	-10.680	-6.448	1.00	0.00
ATOM 1856	1HG	ARG A 120	7.536	-8.084	-5.517	1.00	0.00
ATOM 1857	2HG	ARG A 120	7.970	-9.089	-4.133	1.00	0.00
ATOM 1858	1HD	ARG A 120	9.914	-8.534	-5.533	1.00	0.00
ATOM 1859	2HD	ARG A 120	9.611	-10.270	-5.466	1.00	0.00
ATOM 1860	HE	ARG A 120	8.300	-9.506	-7.701	1.00	0.00
ATOM 1861	1HH1	ARG A 120	11.562	-9.005	-6.568	1.00	0.00
ATOM 1862	2HH1	ARG A 120	12.238	-8.943	-8.161	1.00	0.00
ATOM 1863	1HH2	ARG A 120	9.188	-9.423	-9.797	1.00	0.00

ATOM	1864	2HH2	ARG	A	120	10.891	-9.179	-9.994	1.00	0.00
ATOM	1865	N	LYS	A	121	5.531	-9.874	-8.511	1.00	0.00
ATOM	1866	CA	LYS	A	121	5.648	-9.511	-9.919	1.00	0.00
ATOM	1867	C	LYS	A	121	4.473	-8.644	-10.363	1.00	0.00
ATOM	1868	O	LYS	A	121	4.546	-7.963	-11.387	1.00	0.00
ATOM	1869	CB	LYS	A	121	5.724	-10.769	-10.785	1.00	0.00
ATOM	1870	CG	LYS	A	121	4.554	-11.719	-10.584	1.00	0.00
ATOM	1871	CD	LYS	A	121	4.548	-12.823	-11.629	1.00	0.00
ATOM	1872	CE	LYS	A	121	3.389	-13.783	-11.417	1.00	0.00
ATOM	1873	NZ	LYS	A	121	3.764	-14.921	-10.533	1.00	0.00
ATOM	1874	H	LYS	A	121	5.337	-10.804	-8.271	1.00	0.00
ATOM	1875	HA	LYS	A	121	6.561	-8.947	-10.040	1.00	0.00
ATOM	1876	1HB	LYS	A	121	5.746	-10.475	-11.825	1.00	0.00
ATOM	1877	2HB	LYS	A	121	6.635	-11.299	-10.551	1.00	0.00
ATOM	1878	1HG	LYS	A	121	4.631	-12.166	-9.604	1.00	0.00
ATOM	1879	2HG	LYS	A	121	3.633	-11.160	-10.657	1.00	0.00
ATOM	1880	1HD	LYS	A	121	4.459	-12.378	-12.609	1.00	0.00
ATOM	1881	2HD	LYS	A	121	5.476	-13.372	-11.564	1.00	0.00
ATOM	1882	1HE	LYS	A	121	2.569	-13.244	-10.967	1.00	0.00
ATOM	1883	2HE	LYS	A	121	3.080	-14.171	-12.377	1.00	0.00
ATOM	1884	1HZ	LYS	A	121	4.796	-15.057	-10.544	1.00	0.00
ATOM	1885	2HZ	LYS	A	121	3.308	-15.796	-10.862	1.00	0.00
ATOM	1886	3HZ	LYS	A	121	3.460	-14.731	-9.557	1.00	0.00
ATOM	1887	N	SER	A	122	3.389	-8.671	-9.592	1.00	0.00
ATOM	1888	CA	SER	A	122	2.203	-7.886	-9.914	1.00	0.00
ATOM	1889	C	SER	A	122	2.342	-6.452	-9.413	1.00	0.00
ATOM	1890	O	SER	A	122	1.824	-5.518	-10.025	1.00	0.00

ATOM 1891	CB	SER A 122	0.957	-8.534	-9.306	1.00	0.00
ATOM 1892	OG	SER A 122	1.147	-8.811	-7.929	1.00	0.00
ATOM 1893	H	SER A 122	3.386	-9.232	-8.789	1.00	0.00
ATOM 1894	HA	SER A 122	2.099	-7.871	-10.989	1.00	0.00
ATOM 1895	1HB	SER A 122	0.117	-7.863	-9.412	1.00	0.00
ATOM 1896	2HB	SER A 122	0.746	-9.460	-9.821	1.00	0.00
ATOM 1897	HG	SER A 122	1.359	-7.997	-7.465	1.00	0.00
ATOM 1898	N	VAL A 123	3.041	-6.285	-8.295	1.00	0.00
ATOM 1899	CA	VAL A 123	3.246	-4.963	-7.713	1.00	0.00
ATOM 1900	C	VAL A 123	3.956	-4.035	-8.692	1.00	0.00
ATOM 1901	O	VAL A 123	4.916	-4.431	-9.353	1.00	0.00
ATOM 1902	CB	VAL A 123	4.066	-5.043	-6.409	1.00	0.00
ATOM 1903	CG1	VAL A 123	4.131	-3.681	-5.734	1.00	0.00
ATOM 1904	CG2	VAL A 123	3.479	-6.086	-5.469	1.00	0.00
ATOM 1905	H	VAL A 123	3.429	-7.068	-7.852	1.00	0.00
ATOM 1906	HA	VAL A 123	2.276	-4.549	-7.478	1.00	0.00
ATOM 1907	HB	VAL A 123	5.073	-5.343	-6.661	1.00	0.00
ATOM 1908	1HG1	VAL A 123	4.873	-3.070	-6.226	1.00	0.00
ATOM 1909	2HG1	VAL A 123	4.400	-3.808	-4.695	1.00	0.00
ATOM 1910	3HG1	VAL A 123	3.166	-3.200	-5.800	1.00	0.00
ATOM 1911	1HG2	VAL A 123	2.967	-5.591	-4.657	1.00	0.00
ATOM 1912	2HG2	VAL A 123	4.273	-6.700	-5.073	1.00	0.00
ATOM 1913	3HG2	VAL A 123	2.780	-6.708	-6.009	1.00	0.00
ATOM 1914	N	PHE A 124	3.479	-2.798	-8.780	1.00	0.00
ATOM 1915	CA	PHE A 124	4.069	-1.813	-9.679	1.00	0.00
ATOM 1916	C	PHE A 124	3.429	-0.442	-9.480	1.00	0.00
ATOM 1917	O	PHE A 124	2.207	-0.303	-9.530	1.00	0.00

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ATOM	1918	CB	PHE A 124	3.907	-2.257	-11.133	1.00	0.00
ATOM	1919	CG	PHE A 124	4.716	-1.444	-12.103	1.00	0.00
ATOM	1920	CD1	PHE A 124	5.803	-2.001	-12.757	1.00	0.00
ATOM	1921	CD2	PHE A 124	4.388	-0.122	-12.360	1.00	0.00
ATOM	1922	CE1	PHE A 124	6.548	-1.255	-13.651	1.00	0.00
ATOM	1923	CE2	PHE A 124	5.131	0.629	-13.253	1.00	0.00
ATOM	1924	CZ	PHE A 124	6.212	0.062	-13.899	1.00	0.00
ATOM	1925	H	PHE A 124	2.711	-2.540	-8.226	1.00	0.00
ATOM	1926	HA	PHE A 124	5.121	-1.742	-9.447	1.00	0.00
ATOM	1927	1HB	PHE A 124	4.219	-3.287	-11.224	1.00	0.00
ATOM	1928	2HB	PHE A 124	2.867	-2.175	-11.414	1.00	0.00
ATOM	1929	HD1	PHE A 124	6.066	-3.030	-12.565	1.00	0.00
ATOM	1930	HD2	PHE A 124	3.544	0.322	-11.856	1.00	0.00
ATOM	1931	HE1	PHE A 124	7.393	-1.700	-14.154	1.00	0.00
ATOM	1932	HE2	PHE A 124	4.864	1.658	-13.444	1.00	0.00
ATOM	1933	HZ	PHE A 124	6.792	0.647	-14.596	1.00	0.00
ATOM	1934	N	VAL A 125	4.263	0.568	-9.256	1.00	0.00
ATOM	1935	CA	VAL A 125	3.776	1.928	-9.051	1.00	0.00
ATOM	1936	C	VAL A 125	4.228	2.848	-10.181	1.00	0.00
ATOM	1937	O	VAL A 125	5.415	3.147	-10.315	1.00	0.00
ATOM	1938	CB	VAL A 125	4.258	2.501	-7.702	1.00	0.00
ATOM	1939	CG1	VAL A 125	5.777	2.590	-7.664	1.00	0.00
ATOM	1940	CG2	VAL A 125	3.629	3.863	-7.444	1.00	0.00
ATOM	1941	H	VAL A 125	5.227	0.396	-9.227	1.00	0.00
ATOM	1942	HA	VAL A 125	2.696	1.896	-9.038	1.00	0.00
ATOM	1943	HB	VAL A 125	3.943	1.830	-6.918	1.00	0.00
ATOM	1944	1HG1	VAL A 125	6.083	3.608	-7.854	1.00	0.00

ATOM 1945	2HG1	VAL	A	125	6.194	1.942	-8.421	1.00	0.00
ATOM 1946	3HG1	VAL	A	125	6.131	2.284	-6.692	1.00	0.00
ATOM 1947	1HG2	VAL	A	125	3.284	4.285	-8.376	1.00	0.00
ATOM 1948	2HG2	VAL	A	125	4.363	4.522	-7.002	1.00	0.00
ATOM 1949	3HG2	VAL	A	125	2.793	3.751	-6.768	1.00	0.00
ATOM 1950	N	ASP	A	126	3.274	3.294	-10.991	1.00	0.00
ATOM 1951	CA	ASP	A	126	3.573	4.181	-12.111	1.00	0.00
ATOM 1952	C	ASP	A	126	2.942	5.553	-11.902	1.00	0.00
ATOM 1953	O	ASP	A	126	2.046	5.716	-11.075	1.00	0.00
ATOM 1954	CB	ASP	A	126	3.071	3.569	-13.420	1.00	0.00
ATOM 1955	CG	ASP	A	126	3.952	3.927	-14.600	1.00	0.00
ATOM 1956	OD1	ASP	A	126	3.966	3.161	-15.586	1.00	0.00
ATOM 1957	OD2	ASP	A	126	4.629	4.975	-14.539	1.00	0.00
ATOM 1958	H	ASP	A	126	2.346	3.021	-10.833	1.00	0.00
ATOM 1959	HA	ASP	A	126	4.646	4.295	-12.166	1.00	0.00
ATOM 1960	1HB	ASP	A	126	3.051	2.493	-13.323	1.00	0.00
ATOM 1961	2HB	ASP	A	126	2.071	3.927	-13.618	1.00	0.00
ATOM 1962	N	SER	A	127	3.417	6.538	-12.659	1.00	0.00
ATOM 1963	CA	SER	A	127	2.899	7.898	-12.559	1.00	0.00
ATOM 1964	C	SER	A	127	1.472	7.978	-13.092	1.00	0.00
ATOM 1965	O	SER	A	127	1.247	7.935	-14.301	1.00	0.00
ATOM 1966	CB	SER	A	127	3.798	8.866	-13.329	1.00	0.00
ATOM 1967	OG	SER	A	127	3.924	10.101	-12.644	1.00	0.00
ATOM 1968	H	SER	A	127	4.131	6.344	-13.301	1.00	0.00
ATOM 1969	HA	SER	A	127	2.896	8.175	-11.516	1.00	0.00
ATOM 1970	1HB	SER	A	127	4.780	8.430	-13.441	1.00	0.00
ATOM 1971	2HB	SER	A	127	3.373	9.051	-14.304	1.00	0.00



ATOM 1972	HG	SER A 127	4.597	10.636	-13.071	1.00	0.00
ATOM 1973	N	GLY A 128	0.511	8.093	-12.182	1.00	0.00
ATOM 1974	CA	GLY A 128	-0.882	8.178	-12.578	1.00	0.00
ATOM 1975	C	GLY A 128	-1.329	6.976	-13.390	1.00	0.00
ATOM 1976	O	GLY A 128	-0.498	6.208	-13.875	1.00	0.00
ATOM 1977	H	GLY A 128	0.750	8.122	-11.232	1.00	0.00
ATOM 1978	1HA	GLY A 128	-1.494	8.245	-11.691	1.00	0.00
ATOM 1979	2HA	GLY A 128	-1.024	9.071	-13.169	1.00	0.00
ATOM 1980	N	PRO A 129	-2.650	6.785	-13.558	1.00	0.00
ATOM 1981	CA	PRO A 129	-3.195	5.657	-14.322	1.00	0.00
ATOM 1982	C	PRO A 129	-2.672	5.625	-15.754	1.00	0.00
ATOM 1983	O	PRO A 129	-2.613	6.653	-16.428	1.00	0.00
ATOM 1984	CB	PRO A 129	-4.707	5.909	-14.310	1.00	0.00
ATOM 1985	CG	PRO A 129	-4.941	6.795	-13.137	1.00	0.00
ATOM 1986	CD	PRO A 129	-3.712	7.649	-13.014	1.00	0.00
ATOM 1987	HA	PRO A 129	-2.981	4.715	-13.842	1.00	0.00
ATOM 1988	1HB	PRO A 129	-5.001	6.388	-15.233	1.00	0.00
ATOM 1989	2HB	PRO A 129	-5.230	4.970	-14.205	1.00	0.00
ATOM 1990	1HG	PRO A 129	-5.810	7.412	-13.309	1.00	0.00
ATOM 1991	2HG	PRO A 129	-5.074	6.199	-12.246	1.00	0.00
ATOM 1992	1HD	PRO A 129	-3.816	8.548	-13.601	1.00	0.00
ATOM 1993	2HD	PRO A 129	-3.520	7.890	-11.979	1.00	0.00
ATOM 1994	N	SER A 130	-2.294	4.436	-16.214	1.00	0.00
ATOM 1995	CA	SER A 130	-1.777	4.270	-17.566	1.00	0.00
ATOM 1996	C	SER A 130	-1.816	2.804	-17.985	1.00	0.00
ATOM 1997	O	SER A 130	-1.939	1.911	-17.146	1.00	0.00
ATOM 1998	CB	SER A 130	-0.345	4.800	-17.657	1.00	0.00

ATOM	1999	OG	SER A 130	0.580	3.867	-17.125	1.00	0.00
ATOM	2000	H	SER A 130	-2.365	3.654	-15.628	1.00	0.00
ATOM	2001	HA	SER A 130	-2.405	4.840	-18.234	1.00	0.00
ATOM	2002	1HB	SER A 130	-0.096	4.985	-18.690	1.00	0.00
ATOM	2003	2HB	SER A 130	-0.269	5.722	-17.098	1.00	0.00
ATOM	2004	HG	SER A 130	1.164	3.562	-17.823	1.00	0.00
ATOM	2005	N	SER A 131	-1.711	2.563	-19.288	1.00	0.00
ATOM	2006	CA	SER A 131	-1.735	1.205	-19.818	1.00	0.00
ATOM	2007	C	SER A 131	-1.097	1.149	-21.202	1.00	0.00
ATOM	2008	O	SER A 131	-1.480	0.332	-22.041	1.00	0.00
ATOM	2009	CB	SER A 131	-3.173	0.687	-19.885	1.00	0.00
ATOM	2010	OG	SER A 131	-4.055	1.691	-20.359	1.00	0.00
ATOM	2011	H	SER A 131	-1.615	3.316	-19.908	1.00	0.00
ATOM	2012	HA	SER A 131	-1.167	0.577	-19.147	1.00	0.00
ATOM	2013	1HB	SER A 131	-3.218	-0.159	-20.554	1.00	0.00
ATOM	2014	2HB	SER A 131	-3.490	0.382	-18.899	1.00	0.00
ATOM	2015	HG	SER A 131	-4.078	1.669	-21.318	1.00	0.00
ATOM	2016	N	GLY A 132	-0.121	2.021	-21.434	1.00	0.00
ATOM	2017	CA	GLY A 132	0.554	2.054	-22.717	1.00	0.00
ATOM	2018	C	GLY A 132	-0.390	2.359	-23.863	1.00	0.00
ATOM	2019	H	GLY A 132	0.142	2.648	-20.728	1.00	0.00
ATOM	2020	1HA	GLY A 132	1.323	2.812	-22.688	1.00	0.00
ATOM	2021	2HA	GLY A 132	1.017	1.095	-22.893	1.00	0.00
TER	2022		GLY A 132					

ENDMDL

Three-Dimensional Structure Coordinate 8

ATOM 1	N	GLY A	1	4.835	32.466	-13.048	1.00	0.00
ATOM 2	CA	GLY A	1	5.750	32.896	-11.956	1.00	0.00
ATOM 3	C	GLY A	1	5.260	32.470	-10.586	1.00	0.00
ATOM 4	O	GLY A	1	6.002	31.860	-9.815	1.00	0.00
ATOM 5	1H	GLY A	1	3.864	32.376	-12.685	1.00	0.00
ATOM 6	2H	GLY A	1	5.138	31.546	-13.426	1.00	0.00
ATOM 7	3H	GLY A	1	4.844	33.166	-13.817	1.00	0.00
ATOM 8	1HA	GLY A	1	6.726	32.464	-12.127	1.00	0.00
ATOM 9	2HA	GLY A	1	5.837	33.972	-11.976	1.00	0.00
ATOM 10	N	SER A	2	4.007	32.791	-10.282	1.00	0.00
ATOM 11	CA	SER A	2	3.417	32.438	-8.996	1.00	0.00
ATOM 12	C	SER A	2	2.727	31.079	-9.068	1.00	0.00
ATOM 13	O	SER A	2	3.238	30.085	-8.554	1.00	0.00
ATOM 14	CB	SER A	2	2.416	33.509	-8.558	1.00	0.00
ATOM 15	OG	SER A	2	3.041	34.493	-7.753	1.00	0.00
ATOM 16	H	SER A	2	3.465	33.278	-10.938	1.00	0.00
ATOM 17	HA	SER A	2	4.214	32.385	-8.270	1.00	0.00
ATOM 18	1HB	SER A	2	2.000	33.987	-9.432	1.00	0.00
ATOM 19	2HB	SER A	2	1.624	33.046	-7.989	1.00	0.00
ATOM 20	HG	SER A	2	2.408	35.182	-7.541	1.00	0.00
ATOM 21	N	SER A	3	1.564	31.046	-9.710	1.00	0.00
ATOM 22	CA	SER A	3	0.803	29.809	-9.850	1.00	0.00
ATOM 23	C	SER A	3	0.429	29.244	-8.484	1.00	0.00
ATOM 24	O	SER A	3	1.182	28.470	-7.893	1.00	0.00
ATOM 25	CB	SER A	3	1.611	28.776	-10.639	1.00	0.00
ATOM 26	OG	SER A	3	2.488	29.407	-11.556	1.00	0.00
ATOM 27	H	SER A	3	1.208	31.873	-10.099	1.00	0.00

ATOM 28	HA	SER A	3	-0.101	30.037	-10.393	1.00	0.00
ATOM 29	1HB	SER A	3	2.194	28.180	-9.954	1.00	0.00
ATOM 30	2HB	SER A	3	0.934	28.138	-11.187	1.00	0.00
ATOM 31	HG	SER A	3	2.637	28.827	-12.306	1.00	0.00
ATOM 32	N	GLY A	4	-0.740	29.635	-7.987	1.00	0.00
ATOM 33	CA	GLY A	4	-1.194	29.157	-6.695	1.00	0.00
ATOM 34	C	GLY A	4	-2.497	29.801	-6.263	1.00	0.00
ATOM 35	O	GLY A	4	-3.293	30.229	-7.099	1.00	0.00
ATOM 36	H	GLY A	4	-1.299	30.254	-8.504	1.00	0.00
ATOM 37	1HA	GLY A	4	-1.335	28.087	-6.748	1.00	0.00
ATOM 38	2HA	GLY A	4	-0.436	29.373	-5.957	1.00	0.00
ATOM 39	N	SER A	5	-2.715	29.869	-4.954	1.00	0.00
ATOM 40	CA	SER A	5	-3.931	30.465	-4.411	1.00	0.00
ATOM 41	C	SER A	5	-3.730	30.885	-2.958	1.00	0.00
ATOM 42	O	SER A	5	-4.639	30.767	-2.137	1.00	0.00
ATOM 43	CB	SER A	5	-5.096	29.480	-4.514	1.00	0.00
ATOM 44	OG	SER A	5	-5.474	29.275	-5.864	1.00	0.00
ATOM 45	H	SER A	5	-2.043	29.511	-4.337	1.00	0.00
ATOM 46	HA	SER A	5	-4.159	31.342	-4.999	1.00	0.00
ATOM 47	1HB	SER A	5	-4.803	28.533	-4.088	1.00	0.00
ATOM 48	2HB	SER A	5	-5.944	29.871	-3.971	1.00	0.00
ATOM 49	HG	SER A	5	-6.345	29.652	-6.015	1.00	0.00
ATOM 50	N	SER A	6	-2.534	31.375	-2.649	1.00	0.00
ATOM 51	CA	SER A	6	-2.213	31.813	-1.297	1.00	0.00
ATOM 52	C	SER A	6	-2.335	30.658	-0.308	1.00	0.00
ATOM 53	O	SER A	6	-3.393	30.445	0.286	1.00	0.00
ATOM 54	CB	SER A	6	-3.136	32.959	-0.876	1.00	0.00

ATOM 55	OG	SER A	6	-3.477	33.772	-1.985	1.00	0.00
ATOM 56	H	SER A	6	-1.851	31.445	-3.349	1.00	0.00
ATOM 57	HA	SER A	6	-1.193	32.166	-1.295	1.00	0.00
ATOM 58	1HB	SER A	6	-4.042	32.552	-0.453	1.00	0.00
ATOM 59	2HB	SER A	6	-2.636	33.568	-0.137	1.00	0.00
ATOM 60	HG	SER A	6	-3.200	34.676	-1.817	1.00	0.00
ATOM 61	N	GLY A	7	-1.248	29.914	-0.137	1.00	0.00
ATOM 62	CA	GLY A	7	-1.255	28.790	0.780	1.00	0.00
ATOM 63	C	GLY A	7	-0.306	27.688	0.352	1.00	0.00
ATOM 64	O	GLY A	7	0.901	27.906	0.245	1.00	0.00
ATOM 65	H	GLY A	7	-0.433	30.132	-0.638	1.00	0.00
ATOM 66	1HA	GLY A	7	-0.966	29.137	1.761	1.00	0.00
ATOM 67	2HA	GLY A	7	-2.256	28.387	0.832	1.00	0.00
ATOM 68	N	SER A	8	-0.851	26.501	0.109	1.00	0.00
ATOM 69	CA	SER A	8	-0.045	25.360	-0.309	1.00	0.00
ATOM 70	C	SER A	8	-0.663	24.673	-1.522	1.00	0.00
ATOM 71	O	SER A	8	-1.870	24.442	-1.569	1.00	0.00
ATOM 72	CB	SER A	8	0.097	24.361	0.840	1.00	0.00
ATOM 73	OG	SER A	8	0.786	23.196	0.422	1.00	0.00
ATOM 74	H	SER A	8	-1.819	26.390	0.212	1.00	0.00
ATOM 75	HA	SER A	8	0.935	25.727	-0.578	1.00	0.00
ATOM 76	1HB	SER A	8	0.649	24.818	1.647	1.00	0.00
ATOM 77	2HB	SER A	8	-0.885	24.077	1.191	1.00	0.00
ATOM 78	HG	SER A	8	1.716	23.399	0.303	1.00	0.00
ATOM 79	N	SER A	9	0.173	24.349	-2.504	1.00	0.00
ATOM 80	CA	SER A	9	-0.292	23.690	-3.718	1.00	0.00
ATOM 81	C	SER A	9	0.815	22.842	-4.337	1.00	0.00

ATOM 82	O	SER A	9	1.852	22.606	-3.715	1.00	0.00
ATOM 83	CB	SER A	9	-0.783	24.727	-4.729	1.00	0.00
ATOM 84	OG	SER A	9	-1.625	25.684	-4.111	1.00	0.00
ATOM 85	H	SER A	9	1.126	24.560	-2.409	1.00	0.00
ATOM 86	HA	SER A	9	-1.115	23.045	-3.449	1.00	0.00
ATOM 87	1HB	SER A	9	0.066	25.238	-5.159	1.00	0.00
ATOM 88	2HB	SER A	9	-1.338	24.230	-5.512	1.00	0.00
ATOM 89	HG	SER A	9	-1.732	26.441	-4.692	1.00	0.00
ATOM 90	N	SER A	10	0.588	22.385	-5.565	1.00	0.00
ATOM 91	CA	SER A	10	1.566	21.563	-6.268	1.00	0.00
ATOM 92	C	SER A	10	1.810	20.252	-5.527	1.00	0.00
ATOM 93	O	SER A	10	2.480	20.226	-4.495	1.00	0.00
ATOM 94	CB	SER A	10	2.883	22.324	-6.429	1.00	0.00
ATOM 95	OG	SER A	10	2.678	23.723	-6.343	1.00	0.00
ATOM 96	H	SER A	10	-0.257	22.607	-6.009	1.00	0.00
ATOM 97	HA	SER A	10	1.168	21.340	-7.248	1.00	0.00
ATOM 98	1HB	SER A	10	3.568	22.025	-5.650	1.00	0.00
ATOM 99	2HB	SER A	10	3.314	22.095	-7.394	1.00	0.00
ATOM 100	HG	SER A	10	1.979	23.983	-6.947	1.00	0.00
ATOM 101	N	SER A	11	1.259	19.166	-6.060	1.00	0.00
ATOM 102	CA	SER A	11	1.416	17.851	-5.450	1.00	0.00
ATOM 103	C	SER A	11	1.741	16.797	-6.504	1.00	0.00
ATOM 104	O	SER A	11	2.030	17.125	-7.654	1.00	0.00
ATOM 105	CB	SER A	11	0.142	17.461	-4.698	1.00	0.00
ATOM 106	OG	SER A	11	0.308	16.227	-4.019	1.00	0.00
ATOM 107	H	SER A	11	0.735	19.251	-6.884	1.00	0.00
ATOM 108	HA	SER A	11	2.235	17.907	-4.748	1.00	0.00

ATOM 109	1HB	SER A	11	-0.095	18.226	-3.973	1.00	0.00
ATOM 110	2HB	SER A	11	-0.673	17.365	-5.400	1.00	0.00
ATOM 111	N	GLN A	12	1.695	15.531	-6.101	1.00	0.00
ATOM 112	CA	GLN A	12	1.986	14.430	-7.012	1.00	0.00
ATOM 113	C	GLN A	12	1.262	13.158	-6.581	1.00	0.00
ATOM 114	O	GLN A	12	0.888	13.008	-5.418	1.00	0.00
ATOM 115	CB	GLN A	12	3.493	14.176	-7.072	1.00	0.00
ATOM 116	CG	GLN A	12	4.134	13.992	-5.706	1.00	0.00
ATOM 117	CD	GLN A	12	5.093	15.112	-5.355	1.00	0.00
ATOM 118	OE1	GLN A	12	4.682	16.174	-4.887	1.00	0.00
ATOM 119	NE2	GLN A	12	6.381	14.880	-5.581	1.00	0.00
ATOM 120	H	GLN A	12	1.459	15.332	-5.171	1.00	0.00
ATOM 121	HA	GLN A	12	1.639	14.712	-7.995	1.00	0.00
ATOM 122	1HB	GLN A	12	3.673	13.284	-7.654	1.00	0.00
ATOM 123	2HB	GLN A	12	3.968	15.014	-7.560	1.00	0.00
ATOM 124	1HG	GLN A	12	3.354	13.960	-4.960	1.00	0.00
ATOM 125	2HG	GLN A	12	4.676	13.057	-5.700	1.00	0.00
ATOM 126	1HE2	GLN A	12	6.637	14.011	-5.955	1.00	0.00
ATOM 127	2HE2	GLN A	12	7.023	15.588	-5.363	1.00	0.00
ATOM 128	N	HIS A	13	1.069	12.245	-7.528	1.00	0.00
ATOM 129	CA	HIS A	13	0.391	10.985	-7.248	1.00	0.00
ATOM 130	C	HIS A	13	1.032	9.838	-8.023	1.00	0.00
ATOM 131	O	HIS A	13	1.703	10.055	-9.031	1.00	0.00
ATOM 132	CB	HIS A	13	-1.093	11.088	-7.606	1.00	0.00
ATOM 133	CG	HIS A	13	-1.775	12.273	-6.998	1.00	0.00
ATOM 134	ND1	HIS A	13	-1.662	12.604	-5.664	1.00	0.00
ATOM 135	CD2	HIS A	13	-2.583	13.209	-7.549	1.00	0.00

ATOM 136	CE1	HIS A	13	-2.371	13.693	-5.421	1.00	0.00
ATOM 137	NE2	HIS A	13	-2.939	14.079	-6.548	1.00	0.00
ATOM 138	H	HIS A	13	1.390	12.423	-8.436	1.00	0.00
ATOM 139	HA	HIS A	13	0.484	10.786	-6.191	1.00	0.00
ATOM 140	1HB	HIS A	13	-1.192	11.162	-8.678	1.00	0.00
ATOM 141	2HB	HIS A	13	-1.601	10.197	-7.264	1.00	0.00
ATOM 142	HD1	HIS A	13	-1.139	12.114	-4.994	1.00	0.00
ATOM 143	HD2	HIS A	13	-2.891	13.262	-8.583	1.00	0.00
ATOM 144	HE1	HIS A	13	-2.468	14.182	-4.464	1.00	0.00
ATOM 145	HE2	HIS A	13	-3.475	14.891	-6.662	1.00	0.00
ATOM 146	N	PHE A	14	0.818	8.617	-7.544	1.00	0.00
ATOM 147	CA	PHE A	14	1.372	7.434	-8.192	1.00	0.00
ATOM 148	C	PHE A	14	0.419	6.250	-8.062	1.00	0.00
ATOM 149	O	PHE A	14	0.099	5.814	-6.956	1.00	0.00
ATOM 150	CB	PHE A	14	2.733	7.084	-7.585	1.00	0.00
ATOM 151	CG	PHE A	14	3.789	8.118	-7.851	1.00	0.00
ATOM 152	CD1	PHE A	14	4.333	8.262	-9.118	1.00	0.00
ATOM 153	CD2	PHE A	14	4.238	8.946	-6.835	1.00	0.00
ATOM 154	CE1	PHE A	14	5.304	9.212	-9.367	1.00	0.00
ATOM 155	CE2	PHE A	14	5.210	9.899	-7.078	1.00	0.00
ATOM 156	CZ	PHE A	14	5.744	10.032	-8.346	1.00	0.00
ATOM 157	H	PHE A	14	0.273	8.509	-6.737	1.00	0.00
ATOM 158	HA	PHE A	14	1.503	7.661	-9.239	1.00	0.00
ATOM 159	1HB	PHE A	14	2.628	6.986	-6.516	1.00	0.00
ATOM 160	2HB	PHE A	14	3.073	6.146	-7.998	1.00	0.00
ATOM 161	HD1	PHE A	14	3.989	7.621	-9.917	1.00	0.00
ATOM 162	HD2	PHE A	14	3.822	8.843	-5.844	1.00	0.00



ATOM 163	HE1	PHE	A	14	5.721	9.314	-10.359	1.00	0.00
ATOM 164	HE2	PHE	A	14	5.552	10.538	-6.278	1.00	0.00
ATOM 165	HZ	PHE	A	14	6.503	10.776	-8.537	1.00	0.00
ATOM 166	N	ASN	A	15	-0.037	5.740	-9.201	1.00	0.00
ATOM 167	CA	ASN	A	15	-0.963	4.611	-9.222	1.00	0.00
ATOM 168	C	ASN	A	15	-0.379	3.398	-8.505	1.00	0.00
ATOM 169	O	ASN	A	15	0.649	2.856	-8.913	1.00	0.00
ATOM 170	CB	ASN	A	15	-1.314	4.243	-10.667	1.00	0.00
ATOM 171	CG	ASN	A	15	-2.805	4.062	-10.870	1.00	0.00
ATOM 172	OD1	ASN	A	15	-3.456	4.870	-11.532	1.00	0.00
ATOM 173	ND2	ASN	A	15	-3.354	2.995	-10.300	1.00	0.00
ATOM 174	H	ASN	A	15	0.251	6.136	-10.050	1.00	0.00
ATOM 175	HA	ASN	A	15	-1.863	4.915	-8.712	1.00	0.00
ATOM 176	1HB	ASN	A	15	-0.973	5.029	-11.324	1.00	0.00
ATOM 177	2HB	ASN	A	15	-0.818	3.320	-10.928	1.00	0.00
ATOM 178	1HD2	ASN	A	15	-2.774	2.395	-9.787	1.00	0.00
ATOM 179	2HD2	ASN	A	15	-4.317	2.854	-10.415	1.00	0.00
ATOM 180	N	LEU	A	16	-1.048	2.971	-7.437	1.00	0.00
ATOM 181	CA	LEU	A	16	-0.605	1.816	-6.665	1.00	0.00
ATOM 182	C	LEU	A	16	-1.365	0.564	-7.092	1.00	0.00
ATOM 183	O	LEU	A	16	-2.594	0.524	-7.030	1.00	0.00
ATOM 184	CB	LEU	A	16	-0.811	2.066	-5.170	1.00	0.00
ATOM 185	CG	LEU	A	16	-0.153	1.041	-4.244	1.00	0.00
ATOM 186	CD1	LEU	A	16	1.362	1.177	-4.286	1.00	0.00
ATOM 187	CD2	LEU	A	16	-0.667	1.203	-2.821	1.00	0.00
ATOM 188	H	LEU	A	16	-1.864	3.442	-7.166	1.00	0.00
ATOM 189	HA	LEU	A	16	0.448	1.670	-6.858	1.00	0.00

ATOM 190	1HB	LEU	A	16	-0.416	3.042	-4.933	1.00	0.00
ATOM 191	2HB	LEU	A	16	-1.872	2.068	-4.970	1.00	0.00
ATOM 192	HG	LEU	A	16	-0.407	0.047	-4.581	1.00	0.00
ATOM 193	1HD1	LEU	A	16	1.648	1.778	-5.137	1.00	0.00
ATOM 194	2HD1	LEU	A	16	1.809	0.198	-4.370	1.00	0.00
ATOM 195	3HD1	LEU	A	16	1.706	1.653	-3.378	1.00	0.00
ATOM 196	1HD2	LEU	A	16	-0.723	0.234	-2.347	1.00	0.00
ATOM 197	2HD2	LEU	A	16	-1.649	1.652	-2.842	1.00	0.00
ATOM 198	3HD2	LEU	A	16	0.008	1.838	-2.265	1.00	0.00
ATOM 199	N	ASN	A	17	-0.631	-0.453	-7.530	1.00	0.00
ATOM 200	CA	ASN	A	17	-1.248	-1.700	-7.971	1.00	0.00
ATOM 201	C	ASN	A	17	-0.450	-2.911	-7.501	1.00	0.00
ATOM 202	O	ASN	A	17	0.780	-2.920	-7.556	1.00	0.00
ATOM 203	CB	ASN	A	17	-1.371	-1.718	-9.495	1.00	0.00
ATOM 204	CG	ASN	A	17	-2.270	-0.615	-10.017	1.00	0.00
ATOM 205	OD1	ASN	A	17	-1.897	0.558	-10.016	1.00	0.00
ATOM 206	ND2	ASN	A	17	-3.463	-0.987	-10.467	1.00	0.00
ATOM 207	H	ASN	A	17	0.344	-0.363	-7.562	1.00	0.00
ATOM 208	HA	ASN	A	17	-2.236	-1.747	-7.540	1.00	0.00
ATOM 209	1HB	ASN	A	17	-0.391	-1.595	-9.932	1.00	0.00
ATOM 210	2HB	ASN	A	17	-1.781	-2.669	-9.805	1.00	0.00
ATOM 211	1HD2	ASN	A	17	-3.693	-1.939	-10.437	1.00	0.00
ATOM 212	2HD2	ASN	A	17	-4.065	-0.294	-10.810	1.00	0.00
ATOM 213	N	PHE	A	18	-1.164	-3.936	-7.045	1.00	0.00
ATOM 214	CA	PHE	A	18	-0.535	-5.163	-6.569	1.00	0.00
ATOM 215	C	PHE	A	18	-1.592	-6.184	-6.157	1.00	0.00
ATOM 216	O	PHE	A	18	-2.327	-5.978	-5.192	1.00	0.00

ATOM 217	CB	PHE A	18	0.400	-4.868	-5.393	1.00	0.00
ATOM 218	CG	PHE A	18	-0.311	-4.403	-4.154	1.00	0.00
ATOM 219	CD1	PHE A	18	-0.423	-5.233	-3.051	1.00	0.00
ATOM 220	CD2	PHE A	18	-0.865	-3.134	-4.091	1.00	0.00
ATOM 221	CE1	PHE A	18	-1.074	-4.809	-1.908	1.00	0.00
ATOM 222	CE2	PHE A	18	-1.518	-2.703	-2.951	1.00	0.00
ATOM 223	CZ	PHE A	18	-1.622	-3.542	-1.859	1.00	0.00
ATOM 224	H	PHE A	18	-2.141	-3.867	-7.032	1.00	0.00
ATOM 225	HA	PHE A	18	0.045	-5.573	-7.383	1.00	0.00
ATOM 226	1HB	PHE A	18	0.945	-5.766	-5.143	1.00	0.00
ATOM 227	2HB	PHE A	18	1.101	-4.098	-5.683	1.00	0.00
ATOM 228	HD1	PHE A	18	0.007	-6.224	-3.087	1.00	0.00
ATOM 229	HD2	PHE A	18	-0.784	-2.477	-4.945	1.00	0.00
ATOM 230	HE1	PHE A	18	-1.154	-5.465	-1.055	1.00	0.00
ATOM 231	HE2	PHE A	18	-1.945	-1.711	-2.916	1.00	0.00
ATOM 232	HZ	PHE A	18	-2.132	-3.207	-0.967	1.00	0.00
ATOM 233	N	THR A	19	-1.667	-7.282	-6.903	1.00	0.00
ATOM 234	CA	THR A	19	-2.638	-8.333	-6.622	1.00	0.00
ATOM 235	C	THR A	19	-2.299	-9.065	-5.328	1.00	0.00
ATOM 236	O	THR A	19	-1.143	-9.411	-5.082	1.00	0.00
ATOM 237	CB	THR A	19	-2.693	-9.327	-7.783	1.00	0.00
ATOM 238	OG1	THR A	19	-2.943	-8.656	-9.006	1.00	0.00
ATOM 239	CG2	THR A	19	-3.761	-10.386	-7.614	1.00	0.00
ATOM 240	H	THR A	19	-1.056	-7.386	-7.663	1.00	0.00
ATOM 241	HA	THR A	19	-3.607	-7.868	-6.514	1.00	0.00
ATOM 242	HB	THR A	19	-1.739	-9.828	-7.860	1.00	0.00
ATOM 243	HG1	THR A	19	-2.882	-9.281	-9.732	1.00	0.00

ATOM 244	1HG2	THR	A	19	-3.296	-11.331	-7.372	1.00	0.00
ATOM 245	2HG2	THR	A	19	-4.318	-10.486	-8.534	1.00	0.00
ATOM 246	3HG2	THR	A	19	-4.430	-10.099	-6.817	1.00	0.00
ATOM 247	N	ILE	A	20	-3.316	-9.299	-4.504	1.00	0.00
ATOM 248	CA	ILE	A	20	-3.130	-9.992	-3.236	1.00	0.00
ATOM 249	C	ILE	A	20	-3.628	-11.431	-3.318	1.00	0.00
ATOM 250	O	ILE	A	20	-4.825	-11.692	-3.200	1.00	0.00
ATOM 251	CB	ILE	A	20	-3.861	-9.270	-2.087	1.00	0.00
ATOM 252	CG1	ILE	A	20	-3.486	-7.788	-2.065	1.00	0.00
ATOM 253	CG2	ILE	A	20	-3.533	-9.925	-0.753	1.00	0.00
ATOM 254	CD1	ILE	A	20	-4.447	-6.933	-1.269	1.00	0.00
ATOM 255	H	ILE	A	20	-4.214	-9.000	-4.757	1.00	0.00
ATOM 256	HA	ILE	A	20	-2.073	-10.000	-3.013	1.00	0.00
ATOM 257	HB	ILE	A	20	-4.924	-9.362	-2.253	1.00	0.00
ATOM 258	1HG1	ILE	A	20	-2.505	-7.678	-1.627	1.00	0.00
ATOM 259	2HG1	ILE	A	20	-3.466	-7.413	-3.077	1.00	0.00
ATOM 260	1HG2	ILE	A	20	-3.838	-10.961	-0.775	1.00	0.00
ATOM 261	2HG2	ILE	A	20	-4.057	-9.412	0.039	1.00	0.00
ATOM 262	3HG2	ILE	A	20	-2.469	-9.867	-0.576	1.00	0.00
ATOM 263	1HD1	ILE	A	20	-5.355	-6.787	-1.837	1.00	0.00
ATOM 264	2HD1	ILE	A	20	-3.992	-5.974	-1.066	1.00	0.00
ATOM 265	3HD1	ILE	A	20	-4.681	-7.426	-0.337	1.00	0.00
ATOM 266	N	THR	A	21	-2.700	-12.363	-3.521	1.00	0.00
ATOM 267	CA	THR	A	21	-3.041	-13.779	-3.620	1.00	0.00
ATOM 268	C	THR	A	21	-3.846	-14.238	-2.407	1.00	0.00
ATOM 269	O	THR	A	21	-4.622	-15.190	-2.491	1.00	0.00
ATOM 270	CB	THR	A	21	-1.770	-14.620	-3.750	1.00	0.00

ATOM 271	OG1	THR	A	21	-0.786	-14.187	-2.828	1.00	0.00
ATOM 272	CG2	THR	A	21	-1.157	-14.569	-5.132	1.00	0.00
ATOM 273	H	THR	A	21	-1.763	-12.090	-3.606	1.00	0.00
ATOM 274	HA	THR	A	21	-3.641	-13.912	-4.506	1.00	0.00
ATOM 275	HB	THR	A	21	-2.010	-15.650	-3.532	1.00	0.00
ATOM 276	HG1	THR	A	21	-0.070	-14.826	-2.800	1.00	0.00
ATOM 277	1HG2	THR	A	21	-1.785	-13.978	-5.784	1.00	0.00
ATOM 278	2HG2	THR	A	21	-1.073	-15.571	-5.526	1.00	0.00
ATOM 279	3HG2	THR	A	21	-0.177	-14.121	-5.075	1.00	0.00
ATOM 280	N	ASN	A	22	-3.657	-13.558	-1.280	1.00	0.00
ATOM 281	CA	ASN	A	22	-4.369	-13.899	-0.054	1.00	0.00
ATOM 282	C	ASN	A	22	-5.673	-13.113	0.054	1.00	0.00
ATOM 283	O	ASN	A	22	-5.969	-12.516	1.089	1.00	0.00
ATOM 284	CB	ASN	A	22	-3.485	-13.625	1.166	1.00	0.00
ATOM 285	CG	ASN	A	22	-3.517	-14.760	2.171	1.00	0.00
ATOM 286	OD1	ASN	A	22	-3.919	-15.878	1.849	1.00	0.00
ATOM 287	ND2	ASN	A	22	-3.093	-14.478	3.397	1.00	0.00
ATOM 288	H	ASN	A	22	-3.026	-12.809	-1.273	1.00	0.00
ATOM 289	HA	ASN	A	22	-4.600	-14.954	-0.089	1.00	0.00
ATOM 290	1HB	ASN	A	22	-2.465	-13.488	0.840	1.00	0.00
ATOM 291	2HB	ASN	A	22	-3.825	-12.724	1.656	1.00	0.00
ATOM 292	1HD2	ASN	A	22	-2.787	-13.566	3.582	1.00	0.00
ATOM 293	2HD2	ASN	A	22	-3.103	-15.194	4.067	1.00	0.00
ATOM 294	N	LEU	A	23	-6.452	-13.122	-1.023	1.00	0.00
ATOM 295	CA	LEU	A	23	-7.724	-12.411	-1.055	1.00	0.00
ATOM 296	C	LEU	A	23	-8.586	-12.897	-2.219	1.00	0.00
ATOM 297	O	LEU	A	23	-8.494	-12.372	-3.329	1.00	0.00

ATOM 298	CB	LEU A	23	-7.487	-10.904	-1.174	1.00	0.00
ATOM 299	CG	LEU A	23	-8.559	-10.027	-0.525	1.00	0.00
ATOM 300	CD1	LEU A	23	-9.882	-10.170	-1.260	1.00	0.00
ATOM 301	CD2	LEU A	23	-8.722	-10.385	0.945	1.00	0.00
ATOM 302	H	LEU A	23	-6.163	-13.617	-1.818	1.00	0.00
ATOM 303	HA	LEU A	23	-8.240	-12.614	-0.129	1.00	0.00
ATOM 304	1HB	LEU A	23	-6.536	-10.675	-0.715	1.00	0.00
ATOM 305	2HB	LEU A	23	-7.433	-10.652	-2.222	1.00	0.00
ATOM 306	HG	LEU A	23	-8.253	-8.993	-0.586	1.00	0.00
ATOM 307	1HD1	LEU A	23	-9.699	-10.512	-2.268	1.00	0.00
ATOM 308	2HD1	LEU A	23	-10.382	-9.212	-1.291	1.00	0.00
ATOM 309	3HD1	LEU A	23	-10.506	-10.884	-0.744	1.00	0.00
ATOM 310	1HD2	LEU A	23	-7.810	-10.837	1.308	1.00	0.00
ATOM 311	2HD2	LEU A	23	-9.538	-11.082	1.057	1.00	0.00
ATOM 312	3HD2	LEU A	23	-8.932	-9.490	1.513	1.00	0.00
ATOM 313	N	PRO A	24	-9.436	-13.913	-1.984	1.00	0.00
ATOM 314	CA	PRO A	24	-10.310	-14.467	-3.024	1.00	0.00
ATOM 315	C	PRO A	24	-11.350	-13.461	-3.505	1.00	0.00
ATOM 316	O	PRO A	24	-11.816	-12.618	-2.739	1.00	0.00
ATOM 317	CB	PRO A	24	-10.992	-15.652	-2.333	1.00	0.00
ATOM 318	CG	PRO A	24	-10.897	-15.355	-0.876	1.00	0.00
ATOM 319	CD	PRO A	24	-9.610	-14.601	-0.692	1.00	0.00
ATOM 320	HA	PRO A	24	-9.739	-14.822	-3.870	1.00	0.00
ATOM 321	1HB	PRO A	24	-12.021	-15.718	-2.656	1.00	0.00
ATOM 322	2HB	PRO A	24	-10.472	-16.566	-2.583	1.00	0.00
ATOM 323	1HG	PRO A	24	-11.735	-14.747	-0.569	1.00	0.00
ATOM 324	2HG	PRO A	24	-10.875	-16.277	-0.314	1.00	0.00

ATOM 325	1HD	PRO	A	24	-9.702	-13.891	0.116	1.00	0.00
ATOM 326	2HD	PRO	A	24	-8.795	-15.284	-0.506	1.00	0.00
ATOM 327	N	TYR	A	25	-11.709	-13.556	-4.782	1.00	0.00
ATOM 328	CA	TYR	A	25	-12.693	-12.655	-5.371	1.00	0.00
ATOM 329	C	TYR	A	25	-14.107	-13.194	-5.177	1.00	0.00
ATOM 330	O	TYR	A	25	-14.382	-14.359	-5.464	1.00	0.00
ATOM 331	CB	TYR	A	25	-12.407	-12.460	-6.861	1.00	0.00
ATOM 332	CG	TYR	A	25	-12.880	-11.129	-7.399	1.00	0.00
ATOM 333	CD1	TYR	A	25	-12.293	-9.941	-6.980	1.00	0.00
ATOM 334	CD2	TYR	A	25	-13.911	-11.059	-8.328	1.00	0.00
ATOM 335	CE1	TYR	A	25	-12.722	-8.722	-7.470	1.00	0.00
ATOM 336	CE2	TYR	A	25	-14.344	-9.844	-8.822	1.00	0.00
ATOM 337	CZ	TYR	A	25	-13.747	-8.679	-8.391	1.00	0.00
ATOM 338	OH	TYR	A	25	-14.176	-7.467	-8.880	1.00	0.00
ATOM 339	H	TYR	A	25	-11.301	-14.249	-5.342	1.00	0.00
ATOM 340	HA	TYR	A	25	-12.612	-11.703	-4.870	1.00	0.00
ATOM 341	1HB	TYR	A	25	-11.343	-12.526	-7.028	1.00	0.00
ATOM 342	2HB	TYR	A	25	-12.904	-13.241	-7.420	1.00	0.00
ATOM 343	HD1	TYR	A	25	-11.491	-9.979	-6.259	1.00	0.00
ATOM 344	HD2	TYR	A	25	-14.377	-11.974	-8.665	1.00	0.00
ATOM 345	HE1	TYR	A	25	-12.254	-7.810	-7.131	1.00	0.00
ATOM 346	HE2	TYR	A	25	-15.148	-9.811	-9.544	1.00	0.00
ATOM 347	HH	TYR	A	25	-14.182	-6.819	-8.172	1.00	0.00
ATOM 348	N	SER	A	26	-15.001	-12.338	-4.692	1.00	0.00
ATOM 349	CA	SER	A	26	-16.387	-12.729	-4.461	1.00	0.00
ATOM 350	C	SER	A	26	-17.345	-11.655	-4.965	1.00	0.00
ATOM 351	O	SER	A	26	-16.952	-10.507	-5.175	1.00	0.00

ATOM 352	CB	SER A	26	-16.626	-12.986	-2.973	1.00	0.00
ATOM 353	OG	SER A	26	-17.506	-14.080	-2.780	1.00	0.00
ATOM 354	H	SER A	26	-14.721	-11.422	-4.484	1.00	0.00
ATOM 355	HA	SER A	26	-16.569	-13.641	-5.009	1.00	0.00
ATOM 356	1HB	SER A	26	-15.685	-13.209	-2.492	1.00	0.00
ATOM 357	2HB	SER A	26	-17.061	-12.106	-2.523	1.00	0.00
ATOM 358	HG	SER A	26	-17.370	-14.451	-1.905	1.00	0.00
ATOM 359	N	GLN A	27	-18.604	-12.034	-5.156	1.00	0.00
ATOM 360	CA	GLN A	27	-19.619	-11.103	-5.635	1.00	0.00
ATOM 361	C	GLN A	27	-19.768	-9.921	-4.682	1.00	0.00
ATOM 362	O	GLN A	27	-20.102	-8.812	-5.100	1.00	0.00
ATOM 363	CB	GLN A	27	-20.962	-11.821	-5.795	1.00	0.00
ATOM 364	CG	GLN A	27	-21.420	-11.939	-7.240	1.00	0.00
ATOM 365	CD	GLN A	27	-22.620	-11.063	-7.545	1.00	0.00
ATOM 366	OE1	GLN A	27	-23.762	-11.442	-7.287	1.00	0.00
ATOM 367	NE2	GLN A	27	-22.366	-9.883	-8.099	1.00	0.00
ATOM 368	H	GLN A	27	-18.856	-12.964	-4.972	1.00	0.00
ATOM 369	HA	GLN A	27	-19.303	-10.735	-6.599	1.00	0.00
ATOM 370	1HB	GLN A	27	-20.876	-12.817	-5.386	1.00	0.00
ATOM 371	2HB	GLN A	27	-21.718	-11.280	-5.243	1.00	0.00
ATOM 372	1HG	GLN A	27	-20.607	-11.647	-7.888	1.00	0.00
ATOM 373	2HG	GLN A	27	-21.685	-12.967	-7.438	1.00	0.00
ATOM 374	1HE2	GLN A	27	-21.431	-9.647	-8.278	1.00	0.00
ATOM 375	2HE2	GLN A	27	-23.122	-9.296	-8.307	1.00	0.00
ATOM 376	N	ASP A	28	-19.516	-10.165	-3.400	1.00	0.00
ATOM 377	CA	ASP A	28	-19.621	-9.121	-2.388	1.00	0.00
ATOM 378	C	ASP A	28	-18.655	-7.977	-2.683	1.00	0.00



ATOM 379	O	ASP	A	28	-19.019	-6.805	-2.589	1.00	0.00
ATOM 380	CB	ASP	A	28	-19.339	-9.698	-0.999	1.00	0.00
ATOM 381	CG	ASP	A	28	-20.538	-10.422	-0.419	1.00	0.00
ATOM 382	OD1	ASP	A	28	-20.960	-11.439	-1.010	1.00	0.00
ATOM 383	OD2	ASP	A	28	-21.055	-9.972	0.624	1.00	0.00
ATOM 384	H	ASP	A	28	-19.254	-11.069	-3.128	1.00	0.00
ATOM 385	HA	ASP	A	28	-20.630	-8.738	-2.409	1.00	0.00
ATOM 386	1HB	ASP	A	28	-18.519	-10.397	-1.067	1.00	0.00
ATOM 387	2HB	ASP	A	28	-19.068	-8.896	-0.330	1.00	0.00
ATOM 388	N	ILE	A	29	-17.425	-8.327	-3.040	1.00	0.00
ATOM 389	CA	ILE	A	29	-16.406	-7.332	-3.351	1.00	0.00
ATOM 390	C	ILE	A	29	-16.752	-6.557	-4.620	1.00	0.00
ATOM 391	O	ILE	A	29	-16.193	-5.491	-4.877	1.00	0.00
ATOM 392	CB	ILE	A	29	-15.019	-7.983	-3.523	1.00	0.00
ATOM 393	CG1	ILE	A	29	-14.708	-8.899	-2.336	1.00	0.00
ATOM 394	CG2	ILE	A	29	-13.945	-6.916	-3.669	1.00	0.00
ATOM 395	CD1	ILE	A	29	-14.774	-8.197	-0.998	1.00	0.00
ATOM 396	H	ILE	A	29	-17.196	-9.279	-3.097	1.00	0.00
ATOM 397	HA	ILE	A	29	-16.353	-6.640	-2.522	1.00	0.00
ATOM 398	HB	ILE	A	29	-15.032	-8.571	-4.428	1.00	0.00
ATOM 399	1HG1	ILE	A	29	-15.420	-9.711	-2.320	1.00	0.00
ATOM 400	2HG1	ILE	A	29	-13.713	-9.302	-2.452	1.00	0.00
ATOM 401	1HG2	ILE	A	29	-13.755	-6.738	-4.718	1.00	0.00
ATOM 402	2HG2	ILE	A	29	-13.036	-7.251	-3.192	1.00	0.00
ATOM 403	3HG2	ILE	A	29	-14.281	-6.001	-3.205	1.00	0.00
ATOM 404	1HD1	ILE	A	29	-15.803	-8.128	-0.677	1.00	0.00
ATOM 405	2HD1	ILE	A	29	-14.359	-7.205	-1.090	1.00	0.00

ATOM 406	3HD1	ILE	A	29	-14.207	-8.758	-0.269	1.00	0.00
ATOM 407	N	ALA	A	30	-17.674	-7.097	-5.412	1.00	0.00
ATOM 408	CA	ALA	A	30	-18.089	-6.452	-6.651	1.00	0.00
ATOM 409	C	ALA	A	30	-19.114	-5.351	-6.390	1.00	0.00
ATOM 410	O	ALA	A	30	-19.313	-4.468	-7.224	1.00	0.00
ATOM 411	CB	ALA	A	30	-18.655	-7.483	-7.616	1.00	0.00
ATOM 412	H	ALA	A	30	-18.085	-7.950	-5.157	1.00	0.00
ATOM 413	HA	ALA	A	30	-17.213	-6.013	-7.106	1.00	0.00
ATOM 414	1HB	ALA	A	30	-18.037	-8.369	-7.599	1.00	0.00
ATOM 415	2HB	ALA	A	30	-18.668	-7.072	-8.615	1.00	0.00
ATOM 416	3HB	ALA	A	30	-19.661	-7.740	-7.320	1.00	0.00
ATOM 417	N	GLN	A	31	-19.764	-5.409	-5.230	1.00	0.00
ATOM 418	CA	GLN	A	31	-20.768	-4.414	-4.869	1.00	0.00
ATOM 419	C	GLN	A	31	-20.267	-3.519	-3.735	1.00	0.00
ATOM 420	O	GLN	A	31	-20.183	-3.952	-2.587	1.00	0.00
ATOM 421	CB	GLN	A	31	-22.068	-5.106	-4.450	1.00	0.00
ATOM 422	CG	GLN	A	31	-23.097	-5.192	-5.566	1.00	0.00
ATOM 423	CD	GLN	A	31	-24.123	-4.077	-5.502	1.00	0.00
ATOM 424	OE1	GLN	A	31	-23.853	-2.946	-5.908	1.00	0.00
ATOM 425	NE2	GLN	A	31	-25.307	-4.391	-4.990	1.00	0.00
ATOM 426	H	GLN	A	31	-19.566	-6.136	-4.605	1.00	0.00
ATOM 427	HA	GLN	A	31	-20.961	-3.807	-5.739	1.00	0.00
ATOM 428	1HB	GLN	A	31	-21.839	-6.109	-4.123	1.00	0.00
ATOM 429	2HB	GLN	A	31	-22.507	-4.559	-3.628	1.00	0.00
ATOM 430	1HG	GLN	A	31	-22.586	-5.136	-6.515	1.00	0.00
ATOM 431	2HG	GLN	A	31	-23.612	-6.139	-5.491	1.00	0.00
ATOM 432	1HE2	GLN	A	31	-25.451	-5.311	-4.686	1.00	0.00

ATOM 433	2HE2	GLN	A	31	-25.989	-3.689	-4.936	1.00	0.00
ATOM 434	N	PRO	A	32	-19.925	-2.252	-4.042	1.00	0.00
ATOM 435	CA	PRO	A	32	-19.431	-1.301	-3.041	1.00	0.00
ATOM 436	C	PRO	A	32	-20.509	-0.916	-2.033	1.00	0.00
ATOM 437	O	PRO	A	32	-20.926	0.240	-1.958	1.00	0.00
ATOM 438	CB	PRO	A	32	-19.003	-0.076	-3.864	1.00	0.00
ATOM 439	CG	PRO	A	32	-18.991	-0.531	-5.285	1.00	0.00
ATOM 440	CD	PRO	A	32	-19.987	-1.648	-5.379	1.00	0.00
ATOM 441	HA	PRO	A	32	-18.578	-1.698	-2.511	1.00	0.00
ATOM 442	1HB	PRO	A	32	-19.713	0.724	-3.716	1.00	0.00
ATOM 443	2HB	PRO	A	32	-18.022	0.246	-3.547	1.00	0.00
ATOM 444	1HG	PRO	A	32	-19.282	0.281	-5.928	1.00	0.00
ATOM 445	2HG	PRO	A	32	-18.005	-0.885	-5.549	1.00	0.00
ATOM 446	1HD	PRO	A	32	-20.974	-1.260	-5.583	1.00	0.00
ATOM 447	2HD	PRO	A	32	-19.691	-2.357	-6.137	1.00	0.00
ATOM 448	N	SER	A	33	-20.953	-1.897	-1.262	1.00	0.00
ATOM 449	CA	SER	A	33	-21.983	-1.676	-0.255	1.00	0.00
ATOM 450	C	SER	A	33	-22.006	-2.812	0.764	1.00	0.00
ATOM 451	O	SER	A	33	-22.222	-2.587	1.955	1.00	0.00
ATOM 452	CB	SER	A	33	-23.355	-1.544	-0.918	1.00	0.00
ATOM 453	OG	SER	A	33	-24.344	-1.168	0.024	1.00	0.00
ATOM 454	H	SER	A	33	-20.578	-2.793	-1.375	1.00	0.00
ATOM 455	HA	SER	A	33	-21.752	-0.754	0.259	1.00	0.00
ATOM 456	1HB	SER	A	33	-23.308	-0.791	-1.691	1.00	0.00
ATOM 457	2HB	SER	A	33	-23.634	-2.491	-1.355	1.00	0.00
ATOM 458	HG	SER	A	33	-24.046	-0.394	0.510	1.00	0.00
ATOM 459	N	THR	A	34	-21.785	-4.034	0.287	1.00	0.00

ATOM 460	CA	THR A	34	-21.781	-5.206	1.156	1.00	0.00
ATOM 461	C	THR A	34	-20.782	-5.042	2.298	1.00	0.00
ATOM 462	O	THR A	34	-20.136	-4.003	2.425	1.00	0.00
ATOM 463	CB	THR A	34	-21.448	-6.462	0.350	1.00	0.00
ATOM 464	OG1	THR A	34	-20.146	-6.372	-0.202	1.00	0.00
ATOM 465	CG2	THR A	34	-22.413	-6.717	-0.788	1.00	0.00
ATOM 466	H	THR A	34	-21.620	-4.151	-0.672	1.00	0.00
ATOM 467	HA	THR A	34	-22.771	-5.312	1.574	1.00	0.00
ATOM 468	HB	THR A	34	-21.478	-7.319	1.008	1.00	0.00
ATOM 469	HG1	THR A	34	-19.961	-7.162	-0.715	1.00	0.00
ATOM 470	1HG2	THR A	34	-23.205	-7.369	-0.449	1.00	0.00
ATOM 471	2HG2	THR A	34	-21.887	-7.184	-1.608	1.00	0.00
ATOM 472	3HG2	THR A	34	-22.835	-5.779	-1.117	1.00	0.00
ATOM 473	N	THR A	35	-20.665	-6.075	3.127	1.00	0.00
ATOM 474	CA	THR A	35	-19.747	-6.047	4.259	1.00	0.00
ATOM 475	C	THR A	35	-18.331	-6.413	3.827	1.00	0.00
ATOM 476	O	THR A	35	-17.361	-5.778	4.241	1.00	0.00
ATOM 477	CB	THR A	35	-20.223	-7.008	5.350	1.00	0.00
ATOM 478	OG1	THR A	35	-21.625	-6.908	5.529	1.00	0.00
ATOM 479	CG2	THR A	35	-19.570	-6.761	6.692	1.00	0.00
ATOM 480	H	THR A	35	-21.209	-6.875	2.973	1.00	0.00
ATOM 481	HA	THR A	35	-19.741	-5.042	4.655	1.00	0.00
ATOM 482	HB	THR A	35	-19.989	-8.019	5.050	1.00	0.00
ATOM 483	HG1	THR A	35	-21.871	-5.986	5.627	1.00	0.00
ATOM 484	1HG2	THR A	35	-18.885	-7.566	6.914	1.00	0.00
ATOM 485	2HG2	THR A	35	-20.329	-6.712	7.459	1.00	0.00
ATOM 486	3HG2	THR A	35	-19.028	-5.826	6.663	1.00	0.00

ATOM 487	N	LYS A	36	-18.218	-7.442	2.992	1.00	0.00
ATOM 488	CA	LYS A	36	-16.919	-7.895	2.504	1.00	0.00
ATOM 489	C	LYS A	36	-16.169	-6.761	1.812	1.00	0.00
ATOM 490	O	LYS A	36	-14.953	-6.631	1.954	1.00	0.00
ATOM 491	CB	LYS A	36	-17.094	-9.069	1.539	1.00	0.00
ATOM 492	CG	LYS A	36	-15.876	-9.972	1.454	1.00	0.00
ATOM 493	CD	LYS A	36	-15.830	-10.954	2.614	1.00	0.00
ATOM 494	CE	LYS A	36	-14.498	-11.686	2.670	1.00	0.00
ATOM 495	NZ	LYS A	36	-14.208	-12.410	1.402	1.00	0.00
ATOM 496	H	LYS A	36	-19.028	-7.909	2.698	1.00	0.00
ATOM 497	HA	LYS A	36	-16.342	-8.224	3.356	1.00	0.00
ATOM 498	1HB	LYS A	36	-17.936	-9.663	1.862	1.00	0.00
ATOM 499	2HB	LYS A	36	-17.297	-8.680	0.552	1.00	0.00
ATOM 500	1HG	LYS A	36	-15.915	-10.527	0.528	1.00	0.00
ATOM 501	2HG	LYS A	36	-14.985	-9.362	1.474	1.00	0.00
ATOM 502	1HD	LYS A	36	-15.971	-10.413	3.537	1.00	0.00
ATOM 503	2HD	LYS A	36	-16.623	-11.677	2.492	1.00	0.00
ATOM 504	1HE	LYS A	36	-13.713	-10.966	2.851	1.00	0.00
ATOM 505	2HE	LYS A	36	-14.527	-12.397	3.483	1.00	0.00
ATOM 506	1HZ	LYS A	36	-15.082	-12.825	1.019	1.00	0.00
ATOM 507	2HZ	LYS A	36	-13.524	-13.174	1.575	1.00	0.00
ATOM 508	3HZ	LYS A	36	-13.809	-11.756	0.700	1.00	0.00
ATOM 509	N	TYR A	37	-16.901	-5.943	1.063	1.00	0.00
ATOM 510	CA	TYR A	37	-16.303	-4.821	0.348	1.00	0.00
ATOM 511	C	TYR A	37	-15.772	-3.775	1.324	1.00	0.00
ATOM 512	O	TYR A	37	-14.584	-3.452	1.317	1.00	0.00
ATOM 513	CB	TYR A	37	-17.327	-4.187	-0.595	1.00	0.00

ATOM 514	CG	TYR A	37	-16.791	-3.001	-1.366	1.00	0.00
ATOM 515	CD1	TYR A	37	-16.411	-3.125	-2.696	1.00	0.00
ATOM 516	CD2	TYR A	37	-16.664	-1.755	-0.762	1.00	0.00
ATOM 517	CE1	TYR A	37	-15.921	-2.045	-3.402	1.00	0.00
ATOM 518	CE2	TYR A	37	-16.174	-0.669	-1.462	1.00	0.00
ATOM 519	CZ	TYR A	37	-15.804	-0.819	-2.781	1.00	0.00
ATOM 520	OH	TYR A	37	-15.316	0.261	-3.482	1.00	0.00
ATOM 521	H	TYR A	37	-17.866	-6.098	0.988	1.00	0.00
ATOM 522	HA	TYR A	37	-15.478	-5.203	-0.235	1.00	0.00
ATOM 523	1HB	TYR A	37	-17.653	-4.926	-1.311	1.00	0.00
ATOM 524	2HB	TYR A	37	-18.177	-3.852	-0.020	1.00	0.00
ATOM 525	HD1	TYR A	37	-16.504	-4.086	-3.180	1.00	0.00
ATOM 526	HD2	TYR A	37	-16.953	-1.642	0.273	1.00	0.00
ATOM 527	HE1	TYR A	37	-15.631	-2.161	-4.436	1.00	0.00
ATOM 528	HE2	TYR A	37	-16.084	0.290	-0.974	1.00	0.00
ATOM 529	HH	TYR A	37	-16.002	0.604	-4.059	1.00	0.00
ATOM 530	N	GLN A	38	-16.661	-3.249	2.161	1.00	0.00
ATOM 531	CA	GLN A	38	-16.281	-2.239	3.142	1.00	0.00
ATOM 532	C	GLN A	38	-15.229	-2.782	4.105	1.00	0.00
ATOM 533	O	GLN A	38	-14.353	-2.048	4.560	1.00	0.00
ATOM 534	CB	GLN A	38	-17.510	-1.769	3.923	1.00	0.00
ATOM 535	CG	GLN A	38	-18.611	-1.205	3.041	1.00	0.00
ATOM 536	CD	GLN A	38	-18.654	0.311	3.061	1.00	0.00
ATOM 537	OE1	GLN A	38	-18.264	0.942	4.043	1.00	0.00
ATOM 538	NE2	GLN A	38	-19.133	0.904	1.973	1.00	0.00
ATOM 539	H	GLN A	38	-17.593	-3.547	2.118	1.00	0.00
ATOM 540	HA	GLN A	38	-15.862	-1.400	2.608	1.00	0.00

ATOM 541	1HB	GLN A	38	-17.912	-2.604	4.475	1.00	0.00
ATOM 542	2HB	GLN A	38	-17.206	-1.000	4.619	1.00	0.00
ATOM 543	1HG	GLN A	38	-18.444	-1.531	2.026	1.00	0.00
ATOM 544	2HG	GLN A	38	-19.561	-1.583	3.389	1.00	0.00
ATOM 545	1HE2	GLN A	38	-19.426	0.337	1.229	1.00	0.00
ATOM 546	2HE2	GLN A	38	-19.172	1.883	1.958	1.00	0.00
ATOM 547	N	GLN A	39	-15.324	-4.072	4.411	1.00	0.00
ATOM 548	CA	GLN A	39	-14.380	-4.712	5.321	1.00	0.00
ATOM 549	C	GLN A	39	-13.023	-4.905	4.651	1.00	0.00
ATOM 550	O	GLN A	39	-12.002	-4.428	5.145	1.00	0.00
ATOM 551	CB	GLN A	39	-14.927	-6.062	5.790	1.00	0.00
ATOM 552	CG	GLN A	39	-15.963	-5.946	6.895	1.00	0.00
ATOM 553	CD	GLN A	39	-15.920	-7.116	7.860	1.00	0.00
ATOM 554	OE1	GLN A	39	-15.758	-8.266	7.452	1.00	0.00
ATOM 555	NE2	GLN A	39	-16.066	-6.826	9.147	1.00	0.00
ATOM 556	H	GLN A	39	-16.045	-4.606	4.016	1.00	0.00
ATOM 557	HA	GLN A	39	-14.255	-4.067	6.177	1.00	0.00
ATOM 558	1HB	GLN A	39	-15.382	-6.565	4.950	1.00	0.00
ATOM 559	2HB	GLN A	39	-14.106	-6.662	6.155	1.00	0.00
ATOM 560	1HG	GLN A	39	-15.781	-5.037	7.449	1.00	0.00
ATOM 561	2HG	GLN A	39	-16.945	-5.903	6.446	1.00	0.00
ATOM 562	1HE2	GLN A	39	-16.191	-5.888	9.399	1.00	0.00
ATOM 563	2HE2	GLN A	39	-16.042	-7.563	9.793	1.00	0.00
ATOM 564	N	THR A	40	-13.020	-5.610	3.524	1.00	0.00
ATOM 565	CA	THR A	40	-11.789	-5.868	2.786	1.00	0.00
ATOM 566	C	THR A	40	-11.159	-4.564	2.305	1.00	0.00
ATOM 567	O	THR A	40	-9.938	-4.456	2.198	1.00	0.00

ATOM 568	CB	THR A	40	-12.066	-6.784	1.593	1.00	0.00
ATOM 569	OG1	THR A	40	-12.652	-8.001	2.022	1.00	0.00
ATOM 570	CG2	THR A	40	-10.824	-7.127	0.799	1.00	0.00
ATOM 571	H	THR A	40	-13.866	-5.965	3.179	1.00	0.00
ATOM 572	HA	THR A	40	-11.100	-6.361	3.455	1.00	0.00
ATOM 573	HB	THR A	40	-12.759	-6.291	0.927	1.00	0.00
ATOM 574	HG1	THR A	40	-13.349	-7.817	2.655	1.00	0.00
ATOM 575	1HG2	THR A	40	-9.953	-7.008	1.425	1.00	0.00
ATOM 576	2HG2	THR A	40	-10.749	-6.469	-0.053	1.00	0.00
ATOM 577	3HG2	THR A	40	-10.886	-8.151	0.459	1.00	0.00
ATOM 578	N	LYS A	41	-12.001	-3.577	2.016	1.00	0.00
ATOM 579	CA	LYS A	41	-11.527	-2.281	1.545	1.00	0.00
ATOM 580	C	LYS A	41	-10.824	-1.520	2.664	1.00	0.00
ATOM 581	O	LYS A	41	-9.672	-1.110	2.522	1.00	0.00
ATOM 582	CB	LYS A	41	-12.693	-1.453	1.003	1.00	0.00
ATOM 583	CG	LYS A	41	-12.266	-0.136	0.376	1.00	0.00
ATOM 584	CD	LYS A	41	-13.451	0.793	0.171	1.00	0.00
ATOM 585	CE	LYS A	41	-13.232	1.723	-1.012	1.00	0.00
ATOM 586	NZ	LYS A	41	-14.305	2.749	-1.118	1.00	0.00
ATOM 587	H	LYS A	41	-12.964	-3.725	2.121	1.00	0.00
ATOM 588	HA	LYS A	41	-10.820	-2.457	0.747	1.00	0.00
ATOM 589	1HB	LYS A	41	-13.213	-2.033	0.255	1.00	0.00
ATOM 590	2HB	LYS A	41	-13.373	-1.237	1.815	1.00	0.00
ATOM 591	1HG	LYS A	41	-11.550	0.346	1.025	1.00	0.00
ATOM 592	2HG	LYS A	41	-11.808	-0.338	-0.582	1.00	0.00
ATOM 593	1HD	LYS A	41	-14.335	0.200	-0.010	1.00	0.00
ATOM 594	2HD	LYS A	41	-13.588	1.386	1.063	1.00	0.00



ATOM 595	1HE	LYS	A	41	-12.282	2.222	-0.890	1.00	0.00
ATOM 596	2HE	LYS	A	41	-13.216	1.134	-1.918	1.00	0.00
ATOM 597	1HZ	LYS	A	41	-14.030	3.610	-0.604	1.00	0.00
ATOM 598	2HZ	LYS	A	41	-15.190	2.385	-0.711	1.00	0.00
ATOM 599	3HZ	LYS	A	41	-14.470	2.992	-2.116	1.00	0.00
ATOM 600	N	ARG	A	42	-11.526	-1.331	3.777	1.00	0.00
ATOM 601	CA	ARG	A	42	-10.970	-0.618	4.920	1.00	0.00
ATOM 602	C	ARG	A	42	-9.823	-1.406	5.549	1.00	0.00
ATOM 603	O	ARG	A	42	-8.884	-0.825	6.094	1.00	0.00
ATOM 604	CB	ARG	A	42	-12.058	-0.356	5.964	1.00	0.00
ATOM 605	CG	ARG	A	42	-11.887	0.963	6.702	1.00	0.00
ATOM 606	CD	ARG	A	42	-13.066	1.895	6.468	1.00	0.00
ATOM 607	NE	ARG	A	42	-12.636	3.262	6.184	1.00	0.00
ATOM 608	CZ	ARG	A	42	-12.000	4.037	7.061	1.00	0.00
ATOM 609	NH1	ARG	A	42	-11.717	3.581	8.275	1.00	0.00
ATOM 610	NH2	ARG	A	42	-11.645	5.268	6.722	1.00	0.00
ATOM 611	H	ARG	A	42	-12.440	-1.681	3.831	1.00	0.00
ATOM 612	HA	ARG	A	42	-10.588	0.328	4.567	1.00	0.00
ATOM 613	1HB	ARG	A	42	-13.018	-0.350	5.470	1.00	0.00
ATOM 614	2HB	ARG	A	42	-12.042	-1.155	6.692	1.00	0.00
ATOM 615	1HG	ARG	A	42	-11.805	0.764	7.759	1.00	0.00
ATOM 616	2HG	ARG	A	42	-10.985	1.445	6.353	1.00	0.00
ATOM 617	1HD	ARG	A	42	-13.639	1.529	5.629	1.00	0.00
ATOM 618	2HD	ARG	A	42	-13.687	1.899	7.351	1.00	0.00
ATOM 619	HE	ARG	A	42	-12.831	3.624	5.294	1.00	0.00
ATOM 620	1HH1	ARG	A	42	-11.982	2.654	8.538	1.00	0.00
ATOM 621	2HH1	ARG	A	42	-11.239	4.168	8.930	1.00	0.00

ATOM 622	1HH2	ARG	A	42	-11.855	5.615	5.808	1.00	0.00
ATOM 623	2HH2	ARG	A	42	-11.167	5.850	7.380	1.00	0.00
ATOM 624	N	SER	A	43	-9.908	-2.730	5.470	1.00	0.00
ATOM 625	CA	SER	A	43	-8.877	-3.596	6.031	1.00	0.00
ATOM 626	C	SER	A	43	-7.522	-3.316	5.389	1.00	0.00
ATOM 627	O	SER	A	43	-6.517	-3.159	6.081	1.00	0.00
ATOM 628	CB	SER	A	43	-9.253	-5.065	5.835	1.00	0.00
ATOM 629	OG	SER	A	43	-8.319	-5.920	6.470	1.00	0.00
ATOM 630	H	SER	A	43	-10.681	-3.134	5.024	1.00	0.00
ATOM 631	HA	SER	A	43	-8.810	-3.389	7.089	1.00	0.00
ATOM 632	1HB	SER	A	43	-10.231	-5.245	6.258	1.00	0.00
ATOM 633	2HB	SER	A	43	-9.271	-5.292	4.779	1.00	0.00
ATOM 634	HG	SER	A	43	-7.431	-5.689	6.190	1.00	0.00
ATOM 635	N	ILE	A	44	-7.505	-3.254	4.062	1.00	0.00
ATOM 636	CA	ILE	A	44	-6.274	-2.993	3.326	1.00	0.00
ATOM 637	C	ILE	A	44	-5.803	-1.557	3.541	1.00	0.00
ATOM 638	O	ILE	A	44	-4.612	-1.304	3.719	1.00	0.00
ATOM 639	CB	ILE	A	44	-6.456	-3.241	1.815	1.00	0.00
ATOM 640	CG1	ILE	A	44	-7.063	-4.624	1.572	1.00	0.00
ATOM 641	CG2	ILE	A	44	-5.124	-3.108	1.089	1.00	0.00
ATOM 642	CD1	ILE	A	44	-7.840	-4.723	0.277	1.00	0.00
ATOM 643	H	ILE	A	44	-8.339	-3.387	3.565	1.00	0.00
ATOM 644	HA	ILE	A	44	-5.515	-3.669	3.693	1.00	0.00
ATOM 645	HB	ILE	A	44	-7.125	-2.488	1.427	1.00	0.00
ATOM 646	1HG1	ILE	A	44	-6.271	-5.357	1.540	1.00	0.00
ATOM 647	2HG1	ILE	A	44	-7.736	-4.863	2.382	1.00	0.00
ATOM 648	1HG2	ILE	A	44	-4.439	-2.536	1.698	1.00	0.00

ATOM 649	2HG2	ILE	A	44	-5.277	-2.602	0.147	1.00	0.00
ATOM 650	3HG2	ILE	A	44	-4.713	-4.090	0.908	1.00	0.00
ATOM 651	1HD1	ILE	A	44	-8.126	-5.750	0.106	1.00	0.00
ATOM 652	2HD1	ILE	A	44	-7.222	-4.381	-0.540	1.00	0.00
ATOM 653	3HD1	ILE	A	44	-8.725	-4.109	0.339	1.00	0.00
ATOM 654	N	GLU	A	45	-6.747	-0.621	3.525	1.00	0.00
ATOM 655	CA	GLU	A	45	-6.429	0.788	3.720	1.00	0.00
ATOM 656	C	GLU	A	45	-5.783	1.016	5.082	1.00	0.00
ATOM 657	O	GLU	A	45	-4.950	1.908	5.245	1.00	0.00
ATOM 658	CB	GLU	A	45	-7.696	1.639	3.590	1.00	0.00
ATOM 659	CG	GLU	A	45	-7.568	2.768	2.581	1.00	0.00
ATOM 660	CD	GLU	A	45	-8.474	3.941	2.902	1.00	0.00
ATOM 661	OE1	GLU	A	45	-7.954	4.989	3.340	1.00	0.00
ATOM 662	OE2	GLU	A	45	-9.702	3.812	2.714	1.00	0.00
ATOM 663	H	GLU	A	45	-7.679	-0.886	3.379	1.00	0.00
ATOM 664	HA	GLU	A	45	-5.730	1.079	2.950	1.00	0.00
ATOM 665	1HB	GLU	A	45	-8.512	1.002	3.283	1.00	0.00
ATOM 666	2HB	GLU	A	45	-7.929	2.069	4.552	1.00	0.00
ATOM 667	1HG	GLU	A	45	-6.546	3.114	2.573	1.00	0.00
ATOM 668	2HG	GLU	A	45	-7.826	2.390	1.602	1.00	0.00
ATOM 669	N	ASN	A	46	-6.171	0.202	6.059	1.00	0.00
ATOM 670	CA	ASN	A	46	-5.630	0.312	7.408	1.00	0.00
ATOM 671	C	ASN	A	46	-4.155	-0.078	7.436	1.00	0.00
ATOM 672	O	ASN	A	46	-3.337	0.592	8.064	1.00	0.00
ATOM 673	CB	ASN	A	46	-6.422	-0.573	8.371	1.00	0.00
ATOM 674	CG	ASN	A	46	-6.596	0.066	9.735	1.00	0.00
ATOM 675	OD1	ASN	A	46	-6.079	1.152	9.995	1.00	0.00

ATOM 676	ND2	ASN	A	46	-7.329	-0.607	10.614	1.00	0.00
ATOM 677	H	ASN	A	46	-6.838	-0.490	5.867	1.00	0.00
ATOM 678	HA	ASN	A	46	-5.723	1.342	7.720	1.00	0.00
ATOM 679	1HB	ASN	A	46	-7.401	-0.760	7.956	1.00	0.00
ATOM 680	2HB	ASN	A	46	-5.903	-1.512	8.497	1.00	0.00
ATOM 681	1HD2	ASN	A	46	-7.710	-1.467	10.338	1.00	0.00
ATOM 682	2HD2	ASN	A	46	-7.458	-0.217	11.504	1.00	0.00
ATOM 683	N	ALA	A	47	-3.826	-1.167	6.750	1.00	0.00
ATOM 684	CA	ALA	A	47	-2.451	-1.649	6.696	1.00	0.00
ATOM 685	C	ALA	A	47	-1.559	-0.678	5.931	1.00	0.00
ATOM 686	O	ALA	A	47	-0.365	-0.564	6.211	1.00	0.00
ATOM 687	CB	ALA	A	47	-2.402	-3.028	6.055	1.00	0.00
ATOM 688	H	ALA	A	47	-4.524	-1.660	6.270	1.00	0.00
ATOM 689	HA	ALA	A	47	-2.087	-1.736	7.708	1.00	0.00
ATOM 690	1HB	ALA	A	47	-2.643	-3.777	6.795	1.00	0.00
ATOM 691	2HB	ALA	A	47	-1.411	-3.211	5.668	1.00	0.00
ATOM 692	3HB	ALA	A	47	-3.118	-3.077	5.248	1.00	0.00
ATOM 693	N	LEU	A	48	-2.144	0.021	4.963	1.00	0.00
ATOM 694	CA	LEU	A	48	-1.402	0.982	4.157	1.00	0.00
ATOM 695	C	LEU	A	48	-1.062	2.229	4.970	1.00	0.00
ATOM 696	O	LEU	A	48	0.042	2.763	4.873	1.00	0.00
ATOM 697	CB	LEU	A	48	-2.210	1.371	2.918	1.00	0.00
ATOM 698	CG	LEU	A	48	-2.421	0.247	1.903	1.00	0.00
ATOM 699	CD1	LEU	A	48	-3.229	0.746	0.715	1.00	0.00
ATOM 700	CD2	LEU	A	48	-1.083	-0.312	1.443	1.00	0.00
ATOM 701	H	LEU	A	48	-3.098	-0.115	4.787	1.00	0.00
ATOM 702	HA	LEU	A	48	-0.483	0.511	3.843	1.00	0.00

ATOM 703	1HB	LEU	A	48	-3.179	1.723	3.242	1.00	0.00
ATOM 704	2HB	LEU	A	48	-1.699	2.182	2.421	1.00	0.00
ATOM 705	HG	LEU	A	48	-2.976	-0.552	2.372	1.00	0.00
ATOM 706	1HD1	LEU	A	48	-3.475	-0.087	0.072	1.00	0.00
ATOM 707	2HD1	LEU	A	48	-2.648	1.468	0.162	1.00	0.00
ATOM 708	3HD1	LEU	A	48	-4.139	1.209	1.067	1.00	0.00
ATOM 709	1HD2	LEU	A	48	-0.385	0.499	1.297	1.00	0.00
ATOM 710	2HD2	LEU	A	48	-1.217	-0.845	0.513	1.00	0.00
ATOM 711	3HD2	LEU	A	48	-0.699	-0.988	2.192	1.00	0.00
ATOM 712	N	ASN	A	49	-2.019	2.687	5.770	1.00	0.00
ATOM 713	CA	ASN	A	49	-1.821	3.871	6.598	1.00	0.00
ATOM 714	C	ASN	A	49	-0.663	3.670	7.570	1.00	0.00
ATOM 715	O	ASN	A	49	0.077	4.606	7.872	1.00	0.00
ATOM 716	CB	ASN	A	49	-3.100	4.198	7.371	1.00	0.00
ATOM 717	CG	ASN	A	49	-3.296	5.690	7.559	1.00	0.00
ATOM 718	OD1	ASN	A	49	-2.528	6.345	8.263	1.00	0.00
ATOM 719	ND2	ASN	A	49	-4.331	6.234	6.930	1.00	0.00
ATOM 720	H	ASN	A	49	-2.880	2.219	5.804	1.00	0.00
ATOM 721	HA	ASN	A	49	-1.587	4.697	5.943	1.00	0.00
ATOM 722	1HB	ASN	A	49	-3.950	3.808	6.832	1.00	0.00
ATOM 723	2HB	ASN	A	49	-3.053	3.733	8.345	1.00	0.00
ATOM 724	1HD2	ASN	A	49	-4.902	5.651	6.387	1.00	0.00
ATOM 725	2HD2	ASN	A	49	-4.482	7.197	7.033	1.00	0.00
ATOM 726	N	GLN	A	50	-0.512	2.442	8.056	1.00	0.00
ATOM 727	CA	GLN	A	50	0.555	2.117	8.991	1.00	0.00
ATOM 728	C	GLN	A	50	1.884	1.953	8.256	1.00	0.00
ATOM 729	O	GLN	A	50	2.950	2.214	8.813	1.00	0.00

ATOM 730	CB	GLN A	50	0.196	0.841	9.767	1.00	0.00
ATOM 731	CG	GLN A	50	1.390	-0.031	10.128	1.00	0.00
ATOM 732	CD	GLN A	50	1.006	-1.221	10.987	1.00	0.00
ATOM 733	OE1	GLN A	50	0.002	-1.189	11.697	1.00	0.00
ATOM 734	NE2	GLN A	50	1.808	-2.277	10.926	1.00	0.00
ATOM 735	H	GLN A	50	-1.132	1.737	7.777	1.00	0.00
ATOM 736	HA	GLN A	50	0.644	2.937	9.688	1.00	0.00
ATOM 737	1HB	GLN A	50	-0.301	1.122	10.683	1.00	0.00
ATOM 738	2HB	GLN A	50	-0.482	0.251	9.168	1.00	0.00
ATOM 739	1HG	GLN A	50	1.837	-0.395	9.215	1.00	0.00
ATOM 740	2HG	GLN A	50	2.108	0.569	10.667	1.00	0.00
ATOM 741	1HE2	GLN A	50	2.591	-2.231	10.339	1.00	0.00
ATOM 742	2HE2	GLN A	50	1.583	-3.060	11.471	1.00	0.00
ATOM 743	N	LEU A	51	1.812	1.519	7.001	1.00	0.00
ATOM 744	CA	LEU A	51	3.008	1.321	6.192	1.00	0.00
ATOM 745	C	LEU A	51	3.698	2.652	5.908	1.00	0.00
ATOM 746	O	LEU A	51	4.926	2.731	5.877	1.00	0.00
ATOM 747	CB	LEU A	51	2.651	0.627	4.875	1.00	0.00
ATOM 748	CG	LEU A	51	3.838	0.041	4.110	1.00	0.00
ATOM 749	CD1	LEU A	51	3.408	-1.177	3.309	1.00	0.00
ATOM 750	CD2	LEU A	51	4.453	1.091	3.196	1.00	0.00
ATOM 751	H	LEU A	51	0.934	1.328	6.610	1.00	0.00
ATOM 752	HA	LEU A	51	3.684	0.690	6.748	1.00	0.00
ATOM 753	1HB	LEU A	51	1.957	-0.173	5.092	1.00	0.00
ATOM 754	2HB	LEU A	51	2.158	1.345	4.237	1.00	0.00
ATOM 755	HG	LEU A	51	4.593	-0.273	4.815	1.00	0.00
ATOM 756	1HD1	LEU A	51	4.165	-1.411	2.575	1.00	0.00

ATOM 757	2HD1	LEU	A	51	2.474	-0.967	2.808	1.00	0.00
ATOM 758	3HD1	LEU	A	51	3.278	-2.018	3.974	1.00	0.00
ATOM 759	1HD2	LEU	A	51	5.259	0.647	2.630	1.00	0.00
ATOM 760	2HD2	LEU	A	51	4.838	1.906	3.791	1.00	0.00
ATOM 761	3HD2	LEU	A	51	3.700	1.465	2.518	1.00	0.00
ATOM 762	N	PHE	A	52	2.900	3.695	5.701	1.00	0.00
ATOM 763	CA	PHE	A	52	3.435	5.021	5.420	1.00	0.00
ATOM 764	C	PHE	A	52	4.093	5.617	6.660	1.00	0.00
ATOM 765	O	PHE	A	52	5.195	6.162	6.590	1.00	0.00
ATOM 766	CB	PHE	A	52	2.323	5.949	4.924	1.00	0.00
ATOM 767	CG	PHE	A	52	1.427	5.320	3.895	1.00	0.00
ATOM 768	CD1	PHE	A	52	1.959	4.558	2.866	1.00	0.00
ATOM 769	CD2	PHE	A	52	0.054	5.491	3.957	1.00	0.00
ATOM 770	CE1	PHE	A	52	1.135	3.979	1.918	1.00	0.00
ATOM 771	CE2	PHE	A	52	-0.774	4.915	3.012	1.00	0.00
ATOM 772	CZ	PHE	A	52	-0.232	4.158	1.992	1.00	0.00
ATOM 773	H	PHE	A	52	1.929	3.567	5.738	1.00	0.00
ATOM 774	HA	PHE	A	52	4.181	4.921	4.645	1.00	0.00
ATOM 775	1HB	PHE	A	52	1.710	6.243	5.762	1.00	0.00
ATOM 776	2HB	PHE	A	52	2.769	6.830	4.485	1.00	0.00
ATOM 777	HD1	PHE	A	52	3.028	4.418	2.807	1.00	0.00
ATOM 778	HD2	PHE	A	52	-0.371	6.083	4.755	1.00	0.00
ATOM 779	HE1	PHE	A	52	1.562	3.388	1.121	1.00	0.00
ATOM 780	HE2	PHE	A	52	-1.843	5.055	3.072	1.00	0.00
ATOM 781	HZ	PHE	A	52	-0.877	3.706	1.253	1.00	0.00
ATOM 782	N	ARG	A	53	3.411	5.508	7.796	1.00	0.00
ATOM 783	CA	ARG	A	53	3.931	6.035	9.052	1.00	0.00

ATOM 784	C	ARG A	53	5.237	5.345	9.437	1.00	0.00
ATOM 785	O	ARG A	53	6.071	5.920	10.137	1.00	0.00
ATOM 786	CB	ARG A	53	2.897	5.861	10.168	1.00	0.00
ATOM 787	CG	ARG A	53	2.191	7.154	10.546	1.00	0.00
ATOM 788	CD	ARG A	53	0.712	6.924	10.815	1.00	0.00
ATOM 789	NE	ARG A	53	-0.097	8.086	10.454	1.00	0.00
ATOM 790	CZ	ARG A	53	-0.061	9.246	11.107	1.00	0.00
ATOM 791	NH1	ARG A	53	0.738	9.402	12.154	1.00	0.00
ATOM 792	NH2	ARG A	53	-0.829	10.252	10.711	1.00	0.00
ATOM 793	H	ARG A	53	2.538	5.062	7.788	1.00	0.00
ATOM 794	HA	ARG A	53	4.123	7.088	8.914	1.00	0.00
ATOM 795	1HB	ARG A	53	2.151	5.150	9.843	1.00	0.00
ATOM 796	2HB	ARG A	53	3.392	5.476	11.047	1.00	0.00
ATOM 797	1HG	ARG A	53	2.650	7.555	11.438	1.00	0.00
ATOM 798	2HG	ARG A	53	2.295	7.860	9.736	1.00	0.00
ATOM 799	1HD	ARG A	53	0.382	6.074	10.237	1.00	0.00
ATOM 800	2HD	ARG A	53	0.578	6.716	11.867	1.00	0.00
ATOM 801	HE	ARG A	53	-0.697	7.998	9.685	1.00	0.00
ATOM 802	1HH1	ARG A	53	1.320	8.647	12.457	1.00	0.00
ATOM 803	2HH1	ARG A	53	0.760	10.276	12.640	1.00	0.00
ATOM 804	1HH2	ARG A	53	-1.434	10.141	9.923	1.00	0.00
ATOM 805	2HH2	ARG A	53	-0.803	11.123	11.202	1.00	0.00
ATOM 806	N	ASN A	54	5.409	4.109	8.978	1.00	0.00
ATOM 807	CA	ASN A	54	6.615	3.344	9.276	1.00	0.00
ATOM 808	C	ASN A	54	7.629	3.451	8.141	1.00	0.00
ATOM 809	O	ASN A	54	8.834	3.329	8.361	1.00	0.00
ATOM 810	CB	ASN A	54	6.263	1.876	9.523	1.00	0.00



ATOM 811	CG	ASN A	54	5.758	1.631	10.931	1.00	0.00
ATOM 812	OD1	ASN A	54	6.426	1.965	11.910	1.00	0.00
ATOM 813	ND2	ASN A	54	4.571	1.044	11.040	1.00	0.00
ATOM 814	H	ASN A	54	4.710	3.702	8.425	1.00	0.00
ATOM 815	HA	ASN A	54	7.053	3.754	10.174	1.00	0.00
ATOM 816	1HB	ASN A	54	5.493	1.575	8.827	1.00	0.00
ATOM 817	2HB	ASN A	54	7.142	1.269	9.364	1.00	0.00
ATOM 818	1HD2	ASN A	54	4.094	0.807	10.218	1.00	0.00
ATOM 819	2HD2	ASN A	54	4.219	0.875	11.939	1.00	0.00
ATOM 820	N	SER A	55	7.135	3.676	6.927	1.00	0.00
ATOM 821	CA	SER A	55	8.002	3.796	5.759	1.00	0.00
ATOM 822	C	SER A	55	9.026	4.910	5.950	1.00	0.00
ATOM 823	O	SER A	55	8.810	5.841	6.724	1.00	0.00
ATOM 824	CB	SER A	55	7.168	4.063	4.504	1.00	0.00
ATOM 825	OG	SER A	55	6.431	5.266	4.627	1.00	0.00
ATOM 826	H	SER A	55	6.165	3.761	6.813	1.00	0.00
ATOM 827	HA	SER A	55	8.526	2.859	5.639	1.00	0.00
ATOM 828	1HB	SER A	55	7.825	4.144	3.651	1.00	0.00
ATOM 829	2HB	SER A	55	6.480	3.245	4.351	1.00	0.00
ATOM 830	HG	SER A	55	6.934	5.991	4.251	1.00	0.00
ATOM 831	N	SER A	56	10.143	4.806	5.236	1.00	0.00
ATOM 832	CA	SER A	56	11.204	5.803	5.323	1.00	0.00
ATOM 833	C	SER A	56	10.702	7.175	4.881	1.00	0.00
ATOM 834	O	SER A	56	11.202	8.205	5.334	1.00	0.00
ATOM 835	CB	SER A	56	12.399	5.384	4.466	1.00	0.00
ATOM 836	OG	SER A	56	13.623	5.728	5.092	1.00	0.00
ATOM 837	H	SER A	56	10.257	4.040	4.635	1.00	0.00

ATOM 838	HA	SER A	56	11.516	5.863	6.355	1.00	0.00
ATOM 839	1HB	SER A	56	12.374	4.315	4.316	1.00	0.00
ATOM 840	2HB	SER A	56	12.346	5.882	3.509	1.00	0.00
ATOM 841	HG	SER A	56	14.350	5.302	4.631	1.00	0.00
ATOM 842	N	ILE A	57	9.713	7.181	3.994	1.00	0.00
ATOM 843	CA	ILE A	57	9.144	8.426	3.492	1.00	0.00
ATOM 844	C	ILE A	57	7.925	8.841	4.309	1.00	0.00
ATOM 845	O	ILE A	57	6.887	9.211	3.756	1.00	0.00
ATOM 846	CB	ILE A	57	8.743	8.305	2.009	1.00	0.00
ATOM 847	CG1	ILE A	57	7.881	7.061	1.790	1.00	0.00
ATOM 848	CG2	ILE A	57	9.983	8.260	1.127	1.00	0.00
ATOM 849	CD1	ILE A	57	7.203	7.026	0.438	1.00	0.00
ATOM 850	H	ILE A	57	9.354	6.329	3.670	1.00	0.00
ATOM 851	HA	ILE A	57	9.900	9.195	3.578	1.00	0.00
ATOM 852	HB	ILE A	57	8.173	9.181	1.740	1.00	0.00
ATOM 853	1HG1	ILE A	57	8.503	6.181	1.871	1.00	0.00
ATOM 854	2HG1	ILE A	57	7.114	7.024	2.549	1.00	0.00
ATOM 855	1HG2	ILE A	57	10.806	8.734	1.640	1.00	0.00
ATOM 856	2HG2	ILE A	57	9.785	8.783	0.202	1.00	0.00
ATOM 857	3HG2	ILE A	57	10.234	7.231	0.913	1.00	0.00
ATOM 858	1HD1	ILE A	57	6.533	6.180	0.393	1.00	0.00
ATOM 859	2HD1	ILE A	57	7.949	6.936	-0.337	1.00	0.00
ATOM 860	3HD1	ILE A	57	6.642	7.938	0.293	1.00	0.00
ATOM 861	N	LYS A	58	8.056	8.778	5.630	1.00	0.00
ATOM 862	CA	LYS A	58	6.965	9.146	6.526	1.00	0.00
ATOM 863	C	LYS A	58	6.998	10.639	6.842	1.00	0.00
ATOM 864	O	LYS A	58	6.986	11.041	8.005	1.00	0.00

ATOM 865	CB	LYS	A	58	7.045	8.334	7.822	1.00	0.00
ATOM 866	CG	LYS	A	58	8.326	8.563	8.609	1.00	0.00
ATOM 867	CD	LYS	A	58	8.446	7.591	9.772	1.00	0.00
ATOM 868	CE	LYS	A	58	9.599	7.961	10.690	1.00	0.00
ATOM 869	NZ	LYS	A	58	10.919	7.637	10.085	1.00	0.00
ATOM 870	H	LYS	A	58	8.906	8.475	6.010	1.00	0.00
ATOM 871	HA	LYS	A	58	6.036	8.917	6.027	1.00	0.00
ATOM 872	1HB	LYS	A	58	6.210	8.601	8.452	1.00	0.00
ATOM 873	2HB	LYS	A	58	6.980	7.284	7.580	1.00	0.00
ATOM 874	1HG	LYS	A	58	9.171	8.426	7.952	1.00	0.00
ATOM 875	2HG	LYS	A	58	8.326	9.571	8.994	1.00	0.00
ATOM 876	1HD	LYS	A	58	7.528	7.608	10.339	1.00	0.00
ATOM 877	2HD	LYS	A	58	8.613	6.597	9.382	1.00	0.00
ATOM 878	1HE	LYS	A	58	9.556	9.022	10.891	1.00	0.00
ATOM 879	2HE	LYS	A	58	9.494	7.416	11.617	1.00	0.00
ATOM 880	1HZ	LYS	A	58	11.621	7.454	10.831	1.00	0.00
ATOM 881	2HZ	LYS	A	58	11.250	8.432	9.501	1.00	0.00
ATOM 882	3HZ	LYS	A	58	10.840	6.792	9.484	1.00	0.00
ATOM 883	N	SER	A	59	7.039	11.458	5.795	1.00	0.00
ATOM 884	CA	SER	A	59	7.073	12.906	5.959	1.00	0.00
ATOM 885	C	SER	A	59	6.251	13.595	4.875	1.00	0.00
ATOM 886	O	SER	A	59	5.445	14.481	5.161	1.00	0.00
ATOM 887	CB	SER	A	59	8.516	13.411	5.920	1.00	0.00
ATOM 888	OG	SER	A	59	9.300	12.650	5.017	1.00	0.00
ATOM 889	H	SER	A	59	7.046	11.080	4.891	1.00	0.00
ATOM 890	HA	SER	A	59	6.645	13.141	6.922	1.00	0.00
ATOM 891	1HB	SER	A	59	8.526	14.443	5.601	1.00	0.00

ATOM 892	2HB	SER A	59	8.949	13.336	6.906	1.00	0.00
ATOM 893	HG	SER A	59	9.991	12.192	5.501	1.00	0.00
ATOM 894	N	TYR A	60	6.460	13.183	3.629	1.00	0.00
ATOM 895	CA	TYR A	60	5.737	13.760	2.502	1.00	0.00
ATOM 896	C	TYR A	60	4.509	12.923	2.157	1.00	0.00
ATOM 897	O	TYR A	60	3.503	13.448	1.681	1.00	0.00
ATOM 898	CB	TYR A	60	6.654	13.867	1.282	1.00	0.00
ATOM 899	CG	TYR A	60	7.889	14.706	1.524	1.00	0.00
ATOM 900	CD1	TYR A	60	7.815	16.093	1.548	1.00	0.00
ATOM 901	CD2	TYR A	60	9.128	14.111	1.728	1.00	0.00
ATOM 902	CE1	TYR A	60	8.942	16.864	1.769	1.00	0.00
ATOM 903	CE2	TYR A	60	10.258	14.874	1.950	1.00	0.00
ATOM 904	CZ	TYR A	60	10.159	16.249	1.969	1.00	0.00
ATOM 905	OH	TYR A	60	11.283	17.013	2.189	1.00	0.00
ATOM 906	H	TYR A	60	7.115	12.473	3.464	1.00	0.00
ATOM 907	HA	TYR A	60	5.415	14.750	2.786	1.00	0.00
ATOM 908	1HB	TYR A	60	6.978	12.877	0.995	1.00	0.00
ATOM 909	2HB	TYR A	60	6.104	14.312	0.465	1.00	0.00
ATOM 910	HD1	TYR A	60	6.860	16.571	1.391	1.00	0.00
ATOM 911	HD2	TYR A	60	9.201	13.033	1.712	1.00	0.00
ATOM 912	HE1	TYR A	60	8.864	17.941	1.784	1.00	0.00
ATOM 913	HE2	TYR A	60	11.212	14.393	2.107	1.00	0.00
ATOM 914	HH	TYR A	60	11.262	17.787	1.622	1.00	0.00
ATOM 915	N	PHE A	61	4.599	11.620	2.402	1.00	0.00
ATOM 916	CA	PHE A	61	3.492	10.712	2.118	1.00	0.00
ATOM 917	C	PHE A	61	2.288	11.029	2.998	1.00	0.00
ATOM 918	O	PHÉ A	61	2.388	11.039	4.225	1.00	0.00

ATOM 919	CB	PHE A	61	3.928	9.262	2.333	1.00	0.00
ATOM 920	CG	PHE A	61	3.081	8.265	1.593	1.00	0.00
ATOM 921	CD1	PHE A	61	1.737	8.119	1.896	1.00	0.00
ATOM 922	CD2	PHE A	61	3.630	7.475	0.596	1.00	0.00
ATOM 923	CE1	PHE A	61	0.956	7.203	1.218	1.00	0.00
ATOM 924	CE2	PHE A	61	2.853	6.557	-0.085	1.00	0.00
ATOM 925	CZ	PHE A	61	1.514	6.422	0.226	1.00	0.00
ATOM 926	H	PHE A	61	5.426	11.260	2.782	1.00	0.00
ATOM 927	HA	PHE A	61	3.212	10.846	1.083	1.00	0.00
ATOM 928	1HB	PHE A	61	4.947	9.146	1.996	1.00	0.00
ATOM 929	2HB	PHE A	61	3.874	9.029	3.386	1.00	0.00
ATOM 930	HD1	PHE A	61	1.299	8.731	2.670	1.00	0.00
ATOM 931	HD2	PHE A	61	4.677	7.580	0.352	1.00	0.00
ATOM 932	HE1	PHE A	61	-0.090	7.099	1.464	1.00	0.00
ATOM 933	HE2	PHE A	61	3.293	5.947	-0.860	1.00	0.00
ATOM 934	HZ	PHE A	61	0.905	5.705	-0.305	1.00	0.00
ATOM 935	N	SER A	62	1.150	11.290	2.364	1.00	0.00
ATOM 936	CA	SER A	62	-0.074	11.608	3.090	1.00	0.00
ATOM 937	C	SER A	62	-0.897	10.350	3.347	1.00	0.00
ATOM 938	O	SER A	62	-1.115	9.964	4.496	1.00	0.00
ATOM 939	CB	SER A	62	-0.906	12.626	2.306	1.00	0.00
ATOM 940	OG	SER A	62	-0.747	13.930	2.836	1.00	0.00
ATOM 941	H	SER A	62	1.132	11.267	1.384	1.00	0.00
ATOM 942	HA	SER A	62	0.206	12.040	4.038	1.00	0.00
ATOM 943	1HB	SER A	62	-0.588	12.630	1.274	1.00	0.00
ATOM 944	2HB	SER A	62	-1.951	12.353	2.359	1.00	0.00
ATOM 945	HG	SER A	62	-1.420	14.090	3.503	1.00	0.00

ATOM 946	N	ASP A	63	-1.351	9.714	2.271	1.00	0.00
ATOM 947	CA	ASP A	63	-2.149	8.499	2.383	1.00	0.00
ATOM 948	C	ASP A	63	-2.410	7.890	1.009	1.00	0.00
ATOM 949	O	ASP A	63	-1.971	8.421	-0.011	1.00	0.00
ATOM 950	CB	ASP A	63	-3.476	8.797	3.082	1.00	0.00
ATOM 951	CG	ASP A	63	-3.931	7.657	3.971	1.00	0.00
ATOM 952	OD1	ASP A	63	-4.608	7.928	4.985	1.00	0.00
ATOM 953	OD2	ASP A	63	-3.609	6.493	3.654	1.00	0.00
ATOM 954	H	ASP A	63	-1.143	10.071	1.382	1.00	0.00
ATOM 955	HA	ASP A	63	-1.591	7.790	2.977	1.00	0.00
ATOM 956	1HB	ASP A	63	-3.364	9.681	3.691	1.00	0.00
ATOM 957	2HB	ASP A	63	-4.237	8.974	2.335	1.00	0.00
ATOM 958	N	CYS A	64	-3.128	6.772	0.991	1.00	0.00
ATOM 959	CA	CYS A	64	-3.449	6.089	-0.257	1.00	0.00
ATOM 960	C	CYS A	64	-4.939	6.199	-0.568	1.00	0.00
ATOM 961	O	CYS A	64	-5.711	6.736	0.226	1.00	0.00
ATOM 962	CB	CYS A	64	-3.036	4.617	-0.177	1.00	0.00
ATOM 963	SG	CYS A	64	-1.704	4.163	-1.312	1.00	0.00
ATOM 964	H	CYS A	64	-3.450	6.396	1.837	1.00	0.00
ATOM 965	HA	CYS A	64	-2.893	6.567	-1.049	1.00	0.00
ATOM 966	1HB	CYS A	64	-2.699	4.400	0.825	1.00	0.00
ATOM 967	2HB	CYS A	64	-3.890	3.996	-0.407	1.00	0.00
ATOM 968	HG	CYS A	64	-1.066	4.880	-1.324	1.00	0.00
ATOM 969	N	GLN A	65	-5.334	5.686	-1.728	1.00	0.00
ATOM 970	CA	GLN A	65	-6.732	5.726	-2.143	1.00	0.00
ATOM 971	C	GLN A	65	-7.104	4.470	-2.924	1.00	0.00
ATOM 972	O	GLN A	65	-6.826	4.362	-4.117	1.00	0.00

ATOM 973	CB	GLN A	65	-6.997	6.967	-2.998	1.00	0.00
ATOM 974	CG	GLN A	65	-8.461	7.154	-3.361	1.00	0.00
ATOM 975	CD	GLN A	65	-9.101	8.317	-2.628	1.00	0.00
ATOM 976	OE1	GLN A	65	-8.905	8.491	-1.425	1.00	0.00
ATOM 977	NE2	GLN A	65	-9.872	9.119	-3.352	1.00	0.00
ATOM 978	H	GLN A	65	-4.672	5.271	-2.319	1.00	0.00
ATOM 979	HA	GLN A	65	-7.341	5.776	-1.253	1.00	0.00
ATOM 980	1HB	GLN A	65	-6.668	7.841	-2.454	1.00	0.00
ATOM 981	2HB	GLN A	65	-6.429	6.888	-3.912	1.00	0.00
ATOM 982	1HG	GLN A	65	-8.534	7.333	-4.423	1.00	0.00
ATOM 983	2HG	GLN A	65	-8.999	6.250	-3.112	1.00	0.00
ATOM 984	1HE2	GLN A	65	-9.983	8.919	-4.305	1.00	0.00
ATOM 985	2HE2	GLN A	65	-10.299	9.880	-2.905	1.00	0.00
ATOM 986	N	VAL A	66	-7.737	3.520	-2.240	1.00	0.00
ATOM 987	CA	VAL A	66	-8.147	2.272	-2.870	1.00	0.00
ATOM 988	C	VAL A	66	-9.298	2.504	-3.846	1.00	0.00
ATOM 989	O	VAL A	66	-10.463	2.551	-3.450	1.00	0.00
ATOM 990	CB	VAL A	66	-8.570	1.224	-1.819	1.00	0.00
ATOM 991	CG1	VAL A	66	-9.729	1.741	-0.977	1.00	0.00
ATOM 992	CG2	VAL A	66	-8.928	-0.098	-2.487	1.00	0.00
ATOM 993	H	VAL A	66	-7.931	3.663	-1.291	1.00	0.00
ATOM 994	HA	VAL A	66	-7.301	1.881	-3.416	1.00	0.00
ATOM 995	HB	VAL A	66	-7.731	1.052	-1.159	1.00	0.00
ATOM 996	1HG1	VAL A	66	-9.486	1.642	0.070	1.00	0.00
ATOM 997	2HG1	VAL A	66	-10.617	1.166	-1.196	1.00	0.00
ATOM 998	3HG1	VAL A	66	-9.908	2.781	-1.208	1.00	0.00
ATOM 999	1HG2	VAL A	66	-9.039	0.055	-3.550	1.00	0.00

ATOM 1000	2HG2	VAL	A	66	-9.855	-0.470	-2.078	1.00	0.00
ATOM 1001	3HG2	VAL	A	66	-8.141	-0.816	-2.306	1.00	0.00
ATOM 1002	N	LEU	A	67	-8.962	2.653	-5.122	1.00	0.00
ATOM 1003	CA	LEU	A	67	-9.965	2.883	-6.156	1.00	0.00
ATOM 1004	C	LEU	A	67	-10.963	1.732	-6.213	1.00	0.00
ATOM 1005	O	LEU	A	67	-12.156	1.917	-5.968	1.00	0.00
ATOM 1006	CB	LEU	A	67	-9.293	3.059	-7.518	1.00	0.00
ATOM 1007	CG	LEU	A	67	-8.139	4.063	-7.547	1.00	0.00
ATOM 1008	CD1	LEU	A	67	-7.604	4.221	-8.961	1.00	0.00
ATOM 1009	CD2	LEU	A	67	-8.588	5.406	-6.992	1.00	0.00
ATOM 1010	H	LEU	A	67	-8.017	2.607	-5.377	1.00	0.00
ATOM 1011	HA	LEU	A	67	-10.495	3.790	-5.906	1.00	0.00
ATOM 1012	1HB	LEU	A	67	-8.915	2.098	-7.836	1.00	0.00
ATOM 1013	2HB	LEU	A	67	-10.041	3.385	-8.226	1.00	0.00
ATOM 1014	HG	LEU	A	67	-7.335	3.695	-6.926	1.00	0.00
ATOM 1015	1HD1	LEU	A	67	-7.790	3.317	-9.521	1.00	0.00
ATOM 1016	2HD1	LEU	A	67	-6.542	4.410	-8.925	1.00	0.00
ATOM 1017	3HD1	LEU	A	67	-8.102	5.050	-9.443	1.00	0.00
ATOM 1018	1HD2	LEU	A	67	-8.926	5.280	-5.973	1.00	0.00
ATOM 1019	2HD2	LEU	A	67	-9.397	5.792	-7.594	1.00	0.00
ATOM 1020	3HD2	LEU	A	67	-7.761	6.099	-7.013	1.00	0.00
ATOM 1021	N	ALA	A	68	-10.470	0.541	-6.539	1.00	0.00
ATOM 1022	CA	ALA	A	68	-11.321	-0.639	-6.629	1.00	0.00
ATOM 1023	C	ALA	A	68	-10.490	-1.918	-6.628	1.00	0.00
ATOM 1024	O	ALA	A	68	-9.290	-1.892	-6.354	1.00	0.00
ATOM 1025	CB	ALA	A	68	-12.188	-0.571	-7.877	1.00	0.00
ATOM 1026	H	ALA	A	68	-9.511	0.454	-6.723	1.00	0.00



ATOM 1027	HA	ALA	A	68	-11.972	-0.646	-5.766	1.00	0.00
ATOM 1028	1HB	ALA	A	68	-11.741	-1.166	-8.659	1.00	0.00
ATOM 1029	2HB	ALA	A	68	-12.266	0.455	-8.204	1.00	0.00
ATOM 1030	3HB	ALA	A	68	-13.173	-0.952	-7.652	1.00	0.00
ATOM 1031	N	PHE	A	69	-11.138	-3.037	-6.940	1.00	0.00
ATOM 1032	CA	PHE	A	69	-10.460	-4.328	-6.977	1.00	0.00
ATOM 1033	C	PHE	A	69	-10.656	-5.006	-8.329	1.00	0.00
ATOM 1034	O	PHE	A	69	-11.768	-5.057	-8.854	1.00	0.00
ATOM 1035	CB	PHE	A	69	-10.983	-5.233	-5.860	1.00	0.00
ATOM 1036	CG	PHE	A	69	-10.721	-4.698	-4.481	1.00	0.00
ATOM 1037	CD1	PHE	A	69	-11.753	-4.181	-3.717	1.00	0.00
ATOM 1038	CD2	PHE	A	69	-9.441	-4.713	-3.949	1.00	0.00
ATOM 1039	CE1	PHE	A	69	-11.517	-3.689	-2.448	1.00	0.00
ATOM 1040	CE2	PHE	A	69	-9.197	-4.222	-2.681	1.00	0.00
ATOM 1041	CZ	PHE	A	69	-10.237	-3.709	-1.929	1.00	0.00
ATOM 1042	H	PHE	A	69	-12.094	-2.993	-7.150	1.00	0.00
ATOM 1043	HA	PHE	A	69	-9.405	-4.155	-6.824	1.00	0.00
ATOM 1044	1HB	PHE	A	69	-12.049	-5.352	-5.973	1.00	0.00
ATOM 1045	2HB	PHE	A	69	-10.508	-6.200	-5.939	1.00	0.00
ATOM 1046	HD1	PHE	A	69	-12.755	-4.165	-4.122	1.00	0.00
ATOM 1047	HD2	PHE	A	69	-8.628	-5.114	-4.537	1.00	0.00
ATOM 1048	HE1	PHE	A	69	-12.331	-3.287	-1.863	1.00	0.00
ATOM 1049	HE2	PHE	A	69	-8.195	-4.240	-2.279	1.00	0.00
ATOM 1050	HZ	PHE	A	69	-10.048	-3.325	-0.938	1.00	0.00
ATOM 1051	N	ARG	A	70	-9.567	-5.526	-8.888	1.00	0.00
ATOM 1052	CA	ARG	A	70	-9.621	-6.203	-10.179	1.00	0.00
ATOM 1053	C	ARG	A	70	-9.773	-7.709	-9.998	1.00	0.00

ATOM 1054	O	ARG A	70	-9.379	-8.265	-8.973	1.00	0.00
ATOM 1055	CB	ARG A	70	-8.359	-5.899	-10.989	1.00	0.00
ATOM 1056	CG	ARG A	70	-8.607	-5.800	-12.485	1.00	0.00
ATOM 1057	CD	ARG A	70	-8.984	-4.386	-12.895	1.00	0.00
ATOM 1058	NE	ARG A	70	-9.519	-4.333	-14.253	1.00	0.00
ATOM 1059	CZ	ARG A	70	-9.778	-3.203	-14.906	1.00	0.00
ATOM 1060	NH1	ARG A	70	-9.552	-2.029	-14.329	1.00	0.00
ATOM 1061	NH2	ARG A	70	-10.261	-3.246	-16.140	1.00	0.00
ATOM 1062	H	ARG A	70	-8.709	-5.455	-8.421	1.00	0.00
ATOM 1063	HA	ARG A	70	-10.480	-5.827	-10.714	1.00	0.00
ATOM 1064	1HB	ARG A	70	-7.945	-4.960	-10.652	1.00	0.00
ATOM 1065	2HB	ARG A	70	-7.637	-6.684	-10.817	1.00	0.00
ATOM 1066	1HG	ARG A	70	-7.708	-6.088	-13.009	1.00	0.00
ATOM 1067	2HG	ARG A	70	-9.411	-6.470	-12.751	1.00	0.00
ATOM 1068	1HD	ARG A	70	-9.732	-4.014	-12.209	1.00	0.00
ATOM 1069	2HD	ARG A	70	-8.104	-3.762	-12.839	1.00	0.00
ATOM 1070	HE	ARG A	70	-9.695	-5.187	-14.704	1.00	0.00
ATOM 1071	1HH1	ARG A	70	-9.188	-1.990	-13.398	1.00	0.00
ATOM 1072	2HH1	ARG A	70	-9.749	-1.183	-14.825	1.00	0.00
ATOM 1073	1HH2	ARG A	70	-10.432	-4.127	-16.580	1.00	0.00
ATOM 1074	2HH2	ARG A	70	-10.456	-2.396	-16.630	1.00	0.00
ATOM 1075	N	SER A	71	-10.349	-8.364	-11.002	1.00	0.00
ATOM 1076	CA	SER A	71	-10.553	-9.808	-10.953	1.00	0.00
ATOM 1077	C	SER A	71	-9.445	-10.541	-11.702	1.00	0.00
ATOM 1078	O	SER A	71	-8.666	-9.929	-12.432	1.00	0.00
ATOM 1079	CB	SER A	71	-11.915	-10.169	-11.551	1.00	0.00
ATOM 1080	OG	SER A	71	-12.290	-11.491	-11.203	1.00	0.00

ATOM 1081	H	SER A	71	-10.641	-7.866	-11.792	1.00	0.00
ATOM 1082	HA	SER A	71	-10.535	-10.111	-9.917	1.00	0.00
ATOM 1083	1HB	SER A	71	-12.663	-9.487	-11.177	1.00	0.00
ATOM 1084	2HB	SER A	71	-11.864	-10.093	-12.628	1.00	0.00
ATOM 1085	HG	SER A	71	-13.228	-11.515	-11.002	1.00	0.00
ATOM 1086	N	VAL A	72	-9.381	-11.855	-11.513	1.00	0.00
ATOM 1087	CA	VAL A	72	-8.368	-12.672	-12.171	1.00	0.00
ATOM 1088	C	VAL A	72	-8.945	-14.014	-12.610	1.00	0.00
ATOM 1089	O	VAL A	72	-9.707	-14.643	-11.876	1.00	0.00
ATOM 1090	CB	VAL A	72	-7.162	-12.923	-11.248	1.00	0.00
ATOM 1091	CG1	VAL A	72	-6.344	-11.652	-11.080	1.00	0.00
ATOM 1092	CG2	VAL A	72	-7.623	-13.452	-9.897	1.00	0.00
ATOM 1093	H	VAL A	72	-10.031	-12.285	-10.919	1.00	0.00
ATOM 1094	HA	VAL A	72	-8.022	-12.136	-13.043	1.00	0.00
ATOM 1095	HB	VAL A	72	-6.532	-13.671	-11.707	1.00	0.00
ATOM 1096	1HG1	VAL A	72	-7.008	-10.813	-10.933	1.00	0.00
ATOM 1097	2HG1	VAL A	72	-5.747	-11.488	-11.964	1.00	0.00
ATOM 1098	3HG1	VAL A	72	-5.695	-11.752	-10.222	1.00	0.00
ATOM 1099	1HG2	VAL A	72	-6.929	-14.202	-9.550	1.00	0.00
ATOM 1100	2HG2	VAL A	72	-8.605	-13.890	-9.999	1.00	0.00
ATOM 1101	3HG2	VAL A	72	-7.662	-12.640	-9.187	1.00	0.00
ATOM 1102	N	SER A	73	-8.577	-14.445	-13.813	1.00	0.00
ATOM 1103	CA	SER A	73	-9.058	-15.712	-14.351	1.00	0.00
ATOM 1104	C	SER A	73	-7.930	-16.736	-14.423	1.00	0.00
ATOM 1105	O	SER A	73	-7.889	-17.566	-15.331	1.00	0.00
ATOM 1106	CB	SER A	73	-9.663	-15.502	-15.741	1.00	0.00
ATOM 1107	OG	SER A	73	-11.048	-15.216	-15.657	1.00	0.00

ATOM	1108	H	SER	A	73	-7.968	-13.897	-14.351	1.00	0.00
ATOM	1109	HA	SER	A	73	-9.825	-16.084	-13.688	1.00	0.00
ATOM	1110	1HB	SER	A	73	-9.166	-14.676	-16.226	1.00	0.00
ATOM	1111	2HB	SER	A	73	-9.527	-16.399	-16.328	1.00	0.00
ATOM	1112	N	ASN	A	74	-7.017	-16.671	-13.460	1.00	0.00
ATOM	1113	CA	ASN	A	74	-5.888	-17.593	-13.415	1.00	0.00
ATOM	1114	C	ASN	A	74	-6.089	-18.645	-12.328	1.00	0.00
ATOM	1115	O	ASN	A	74	-6.153	-19.842	-12.612	1.00	0.00
ATOM	1116	CB	ASN	A	74	-4.586	-16.827	-13.166	1.00	0.00
ATOM	1117	CG	ASN	A	74	-3.810	-16.578	-14.445	1.00	0.00
ATOM	1118	OD1	ASN	A	74	-3.780	-15.459	-14.958	1.00	0.00
ATOM	1119	ND2	ASN	A	74	-3.176	-17.621	-14.966	1.00	0.00
ATOM	1120	H	ASN	A	74	-7.104	-15.987	-12.764	1.00	0.00
ATOM	1121	HA	ASN	A	74	-5.827	-18.090	-14.372	1.00	0.00
ATOM	1122	1HB	ASN	A	74	-4.818	-15.874	-12.716	1.00	0.00
ATOM	1123	2HB	ASN	A	74	-3.963	-17.397	-12.493	1.00	0.00
ATOM	1124	1HD2	ASN	A	74	-3.244	-18.483	-14.503	1.00	0.00
ATOM	1125	2HD2	ASN	A	74	-2.667	-17.489	-15.793	1.00	0.00
ATOM	1126	N	ASN	A	75	-6.188	-18.190	-11.083	1.00	0.00
ATOM	1127	CA	ASN	A	75	-6.382	-19.090	-9.952	1.00	0.00
ATOM	1128	C	ASN	A	75	-7.788	-18.950	-9.371	1.00	0.00
ATOM	1129	O	ASN	A	75	-8.272	-19.842	-8.676	1.00	0.00
ATOM	1130	CB	ASN	A	75	-5.341	-18.810	-8.868	1.00	0.00
ATOM	1131	CG	ASN	A	75	-4.863	-20.076	-8.184	1.00	0.00
ATOM	1132	OD1	ASN	A	75	-4.266	-20.949	-8.815	1.00	0.00
ATOM	1133	ND2	ASN	A	75	-5.124	-20.182	-6.886	1.00	0.00
ATOM	1134	H	ASN	A	75	-6.129	-17.226	-10.921	1.00	0.00

ATOM 1135	HA	ASN A	75	-6.254	-20.101	-10.308	1.00	0.00
ATOM 1136	1HB	ASN A	75	-4.488	-18.322	-9.314	1.00	0.00
ATOM 1137	2HB	ASN A	75	-5.772	-18.160	-8.122	1.00	0.00
ATOM 1138	1HD2	ASN A	75	-5.603	-19.448	-6.449	1.00	0.00
ATOM 1139	2HD2	ASN A	75	-4.826	-20.991	-6.420	1.00	0.00
ATOM 1140	N	ASN A	76	-8.439	-17.825	-9.658	1.00	0.00
ATOM 1141	CA	ASN A	76	-9.787	-17.572	-9.161	1.00	0.00
ATOM 1142	C	ASN A	76	-9.793	-17.459	-7.640	1.00	0.00
ATOM 1143	O	ASN A	76	-10.784	-17.787	-6.987	1.00	0.00
ATOM 1144	CB	ASN A	76	-10.739	-18.686	-9.609	1.00	0.00
ATOM 1145	CG	ASN A	76	-11.542	-18.299	-10.836	1.00	0.00
ATOM 1146	OD1	ASN A	76	-11.554	-19.017	-11.836	1.00	0.00
ATOM 1147	ND2	ASN A	76	-12.219	-17.159	-10.765	1.00	0.00
ATOM 1148	H	ASN A	76	-8.003	-17.148	-10.216	1.00	0.00
ATOM 1149	HA	ASN A	76	-10.123	-16.635	-9.580	1.00	0.00
ATOM 1150	1HB	ASN A	76	-10.163	-19.570	-9.843	1.00	0.00
ATOM 1151	2HB	ASN A	76	-11.426	-18.910	-8.807	1.00	0.00
ATOM 1152	1HD2	ASN A	76	-12.163	-16.639	-9.936	1.00	0.00
ATOM 1153	2HD2	ASN A	76	-12.748	-16.886	-11.543	1.00	0.00
ATOM 1154	N	ASN A	77	-8.682	-16.991	-7.081	1.00	0.00
ATOM 1155	CA	ASN A	77	-8.559	-16.833	-5.637	1.00	0.00
ATOM 1156	C	ASN A	77	-7.665	-15.645	-5.292	1.00	0.00
ATOM 1157	O	ASN A	77	-7.048	-15.611	-4.227	1.00	0.00
ATOM 1158	CB	ASN A	77	-7.997	-18.109	-5.009	1.00	0.00
ATOM 1159	CG	ASN A	77	-8.489	-18.323	-3.592	1.00	0.00
ATOM 1160	OD1	ASN A	77	-7.854	-17.893	-2.629	1.00	0.00
ATOM 1161	ND2	ASN A	77	-9.628	-18.993	-3.455	1.00	0.00

ATOM	1162	H	ASN	A	77	-7.926	-16.745	-7.654	1.00	0.00
ATOM	1163	HA	ASN	A	77	-9.546	-16.652	-5.239	1.00	0.00
ATOM	1164	1HB	ASN	A	77	-8.296	-18.958	-5.605	1.00	0.00
ATOM	1165	2HB	ASN	A	77	-6.918	-18.049	-4.992	1.00	0.00
ATOM	1166	1HD2	ASN	A	77	-10.080	-19.307	-4.266	1.00	0.00
ATOM	1167	2HD2	ASN	A	77	-9.970	-19.145	-2.550	1.00	0.00
ATOM	1168	N	HIS	A	78	-7.598	-14.675	-6.198	1.00	0.00
ATOM	1169	CA	HIS	A	78	-6.780	-13.487	-5.989	1.00	0.00
ATOM	1170	C	HIS	A	78	-7.607	-12.217	-6.168	1.00	0.00
ATOM	1171	O	HIS	A	78	-8.824	-12.278	-6.340	1.00	0.00
ATOM	1172	CB	HIS	A	78	-5.596	-13.480	-6.960	1.00	0.00
ATOM	1173	CG	HIS	A	78	-4.827	-14.764	-6.977	1.00	0.00
ATOM	1174	ND1	HIS	A	78	-4.188	-15.243	-8.100	1.00	0.00
ATOM	1175	CD2	HIS	A	78	-4.592	-15.670	-5.998	1.00	0.00
ATOM	1176	CE1	HIS	A	78	-3.597	-16.390	-7.813	1.00	0.00
ATOM	1177	NE2	HIS	A	78	-3.826	-16.670	-6.544	1.00	0.00
ATOM	1178	H	HIS	A	78	-8.114	-14.759	-7.028	1.00	0.00
ATOM	1179	HA	HIS	A	78	-6.403	-13.517	-4.977	1.00	0.00
ATOM	1180	1HB	HIS	A	78	-5.963	-13.299	-7.960	1.00	0.00
ATOM	1181	2HB	HIS	A	78	-4.918	-12.687	-6.682	1.00	0.00
ATOM	1182	HD1	HIS	A	78	-4.172	-14.810	-8.978	1.00	0.00
ATOM	1183	HD2	HIS	A	78	-4.944	-15.616	-4.976	1.00	0.00
ATOM	1184	HE1	HIS	A	78	-3.021	-16.993	-8.499	1.00	0.00
ATOM	1185	HE2	HIS	A	78	-3.428	-17.416	-6.049	1.00	0.00
ATOM	1186	N	THR	A	79	-6.937	-11.070	-6.127	1.00	0.00
ATOM	1187	CA	THR	A	79	-7.612	-9.786	-6.284	1.00	0.00
ATOM	1188	C	THR	A	79	-6.610	-8.681	-6.600	1.00	0.00

ATOM	1189	O	THR	A	79	-5.687	-8.426	-5.826	1.00	0.00
ATOM	1190	CB	THR	A	79	-8.393	-9.437	-5.016	1.00	0.00
ATOM	1191	OG1	THR	A	79	-9.317	-10.462	-4.700	1.00	0.00
ATOM	1192	CG2	THR	A	79	-9.166	-8.140	-5.127	1.00	0.00
ATOM	1193	H	THR	A	79	-5.967	-11.086	-5.986	1.00	0.00
ATOM	1194	HA	THR	A	79	-8.303	-9.876	-7.109	1.00	0.00
ATOM	1195	HB	THR	A	79	-7.699	-9.340	-4.195	1.00	0.00
ATOM	1196	HG1	THR	A	79	-9.791	-10.724	-5.492	1.00	0.00
ATOM	1197	1HG2	THR	A	79	-9.183	-7.649	-4.165	1.00	0.00
ATOM	1198	2HG2	THR	A	79	-10.177	-8.350	-5.443	1.00	0.00
ATOM	1199	3HG2	THR	A	79	-8.688	-7.498	-5.851	1.00	0.00
ATOM	1200	N	GLY	A	80	-6.800	-8.026	-7.741	1.00	0.00
ATOM	1201	CA	GLY	A	80	-5.905	-6.955	-8.139	1.00	0.00
ATOM	1202	C	GLY	A	80	-6.216	-5.649	-7.433	1.00	0.00
ATOM	1203	O	GLY	A	80	-7.251	-5.032	-7.684	1.00	0.00
ATOM	1204	H	GLY	A	80	-7.553	-8.272	-8.318	1.00	0.00
ATOM	1205	1HA	GLY	A	80	-4.891	-7.243	-7.908	1.00	0.00
ATOM	1206	2HA	GLY	A	80	-5.992	-6.805	-9.204	1.00	0.00
ATOM	1207	N	VAL	A	81	-5.319	-5.228	-6.548	1.00	0.00
ATOM	1208	CA	VAL	A	81	-5.504	-3.987	-5.805	1.00	0.00
ATOM	1209	C	VAL	A	81	-5.274	-2.771	-6.696	1.00	0.00
ATOM	1210	O	VAL	A	81	-4.264	-2.680	-7.392	1.00	0.00
ATOM	1211	CB	VAL	A	81	-4.553	-3.910	-4.594	1.00	0.00
ATOM	1212	CG1	VAL	A	81	-4.839	-2.667	-3.763	1.00	0.00
ATOM	1213	CG2	VAL	A	81	-4.671	-5.166	-3.743	1.00	0.00
ATOM	1214	H	VAL	A	81	-4.513	-5.763	-6.391	1.00	0.00
ATOM	1215	HA	VAL	A	81	-6.520	-3.966	-5.440	1.00	0.00

ATOM 1216	HB	VAL A	81	-3.540	-3.845	-4.961	1.00	0.00
ATOM 1217	1HG1	VAL A	81	-5.879	-2.394	-3.871	1.00	0.00
ATOM 1218	2HG1	VAL A	81	-4.217	-1.853	-4.106	1.00	0.00
ATOM 1219	3HG1	VAL A	81	-4.626	-2.870	-2.725	1.00	0.00
ATOM 1220	1HG2	VAL A	81	-4.005	-5.090	-2.896	1.00	0.00
ATOM 1221	2HG2	VAL A	81	-4.405	-6.029	-4.336	1.00	0.00
ATOM 1222	3HG2	VAL A	81	-5.687	-5.270	-3.394	1.00	0.00
ATOM 1223	N	ASP A	82	-6.218	-1.836	-6.663	1.00	0.00
ATOM 1224	CA	ASP A	82	-6.120	-0.619	-7.462	1.00	0.00
ATOM 1225	C	ASP A	82	-6.150	0.614	-6.567	1.00	0.00
ATOM 1226	O	ASP A	82	-7.169	1.299	-6.467	1.00	0.00
ATOM 1227	CB	ASP A	82	-7.263	-0.558	-8.478	1.00	0.00
ATOM 1228	CG	ASP A	82	-7.043	-1.492	-9.651	1.00	0.00
ATOM 1229	OD1	ASP A	82	-7.422	-2.677	-9.545	1.00	0.00
ATOM 1230	OD2	ASP A	82	-6.493	-1.039	-10.677	1.00	0.00
ATOM 1231	H	ASP A	82	-6.999	-1.965	-6.085	1.00	0.00
ATOM 1232	HA	ASP A	82	-5.179	-0.644	-7.991	1.00	0.00
ATOM 1233	1HB	ASP A	82	-8.186	-0.832	-7.991	1.00	0.00
ATOM 1234	2HB	ASP A	82	-7.346	0.452	-8.855	1.00	0.00
ATOM 1235	N	SER A	83	-5.026	0.888	-5.912	1.00	0.00
ATOM 1236	CA	SER A	83	-4.921	2.036	-5.018	1.00	0.00
ATOM 1237	C	SER A	83	-4.187	3.191	-5.692	1.00	0.00
ATOM 1238	O	SER A	83	-3.805	3.101	-6.859	1.00	0.00
ATOM 1239	CB	SER A	83	-4.198	1.637	-3.731	1.00	0.00
ATOM 1240	OG	SER A	83	-3.268	0.596	-3.971	1.00	0.00
ATOM 1241	H	SER A	83	-4.249	0.303	-6.030	1.00	0.00
ATOM 1242	HA	SER A	83	-5.922	2.357	-4.772	1.00	0.00



ATOM 1243	1HB	SER A	83	-3.668	2.491	-3.338	1.00	0.00
ATOM 1244	2HB	SER A	83	-4.921	1.296	-3.005	1.00	0.00
ATOM 1245	HG	SER A	83	-3.024	0.184	-3.139	1.00	0.00
ATOM 1246	N	LEU A	84	-3.996	4.277	-4.949	1.00	0.00
ATOM 1247	CA	LEU A	84	-3.310	5.453	-5.473	1.00	0.00
ATOM 1248	C	LEU A	84	-2.390	6.060	-4.419	1.00	0.00
ATOM 1249	O	LEU A	84	-2.852	6.595	-3.410	1.00	0.00
ATOM 1250	CB	LEU A	84	-4.331	6.495	-5.940	1.00	0.00
ATOM 1251	CG	LEU A	84	-3.759	7.643	-6.775	1.00	0.00
ATOM 1252	CD1	LEU A	84	-2.938	8.584	-5.905	1.00	0.00
ATOM 1253	CD2	LEU A	84	-2.919	7.103	-7.922	1.00	0.00
ATOM 1254	H	LEU A	84	-4.326	4.287	-4.026	1.00	0.00
ATOM 1255	HA	LEU A	84	-2.715	5.141	-6.318	1.00	0.00
ATOM 1256	1HB	LEU A	84	-5.084	5.991	-6.527	1.00	0.00
ATOM 1257	2HB	LEU A	84	-4.804	6.918	-5.066	1.00	0.00
ATOM 1258	HG	LEU A	84	-4.576	8.211	-7.198	1.00	0.00
ATOM 1259	1HD1	LEU A	84	-3.165	9.607	-6.167	1.00	0.00
ATOM 1260	2HD1	LEU A	84	-1.887	8.397	-6.064	1.00	0.00
ATOM 1261	3HD1	LEU A	84	-3.181	8.416	-4.865	1.00	0.00
ATOM 1262	1HD2	LEU A	84	-3.444	6.291	-8.402	1.00	0.00
ATOM 1263	2HD2	LEU A	84	-1.974	6.744	-7.539	1.00	0.00
ATOM 1264	3HD2	LEU A	84	-2.740	7.890	-8.640	1.00	0.00
ATOM 1265	N	CYS A	85	-1.084	5.977	-4.659	1.00	0.00
ATOM 1266	CA	CYS A	85	-0.102	6.521	-3.729	1.00	0.00
ATOM 1267	C	CYS A	85	-0.151	8.046	-3.723	1.00	0.00
ATOM 1268	O	CYS A	85	0.651	8.704	-4.385	1.00	0.00
ATOM 1269	CB	CYS A	85	1.304	6.044	-4.101	1.00	0.00

ATOM	1270	SG	CYS	A	85	1.609	4.299	-3.743	1.00	0.00
ATOM	1271	H	CYS	A	85	-0.776	5.541	-5.479	1.00	0.00
ATOM	1272	HA	CYS	A	85	-0.345	6.159	-2.741	1.00	0.00
ATOM	1273	1HB	CYS	A	85	1.458	6.193	-5.159	1.00	0.00
ATOM	1274	2HB	CYS	A	85	2.032	6.623	-3.552	1.00	0.00
ATOM	1275	HG	CYS	A	85	0.803	3.926	-3.376	1.00	0.00
ATOM	1276	N	ASN	A	86	-1.099	8.600	-2.974	1.00	0.00
ATOM	1277	CA	ASN	A	86	-1.256	10.048	-2.887	1.00	0.00
ATOM	1278	C	ASN	A	86	-0.163	10.666	-2.021	1.00	0.00
ATOM	1279	O	ASN	A	86	0.252	10.086	-1.018	1.00	0.00
ATOM	1280	CB	ASN	A	86	-2.631	10.398	-2.316	1.00	0.00
ATOM	1281	CG	ASN	A	86	-3.687	10.538	-3.396	1.00	0.00
ATOM	1282	OD1	ASN	A	86	-3.425	11.081	-4.468	1.00	0.00
ATOM	1283	ND2	ASN	A	86	-4.889	10.047	-3.116	1.00	0.00
ATOM	1284	H	ASN	A	86	-1.710	8.022	-2.471	1.00	0.00
ATOM	1285	HA	ASN	A	86	-1.179	10.450	-3.885	1.00	0.00
ATOM	1286	1HB	ASN	A	86	-2.942	9.617	-1.637	1.00	0.00
ATOM	1287	2HB	ASN	A	86	-2.565	11.332	-1.779	1.00	0.00
ATOM	1288	1HD2	ASN	A	86	-5.026	9.629	-2.240	1.00	0.00
ATOM	1289	2HD2	ASN	A	86	-5.591	10.125	-3.795	1.00	0.00
ATOM	1290	N	PHE	A	87	0.300	11.848	-2.419	1.00	0.00
ATOM	1291	CA	PHE	A	87	1.344	12.548	-1.679	1.00	0.00
ATOM	1292	C	PHE	A	87	0.913	13.972	-1.344	1.00	0.00
ATOM	1293	O	PHE	A	87	0.003	14.518	-1.966	1.00	0.00
ATOM	1294	CB	PHE	A	87	2.643	12.570	-2.487	1.00	0.00
ATOM	1295	CG	PHE	A	87	3.534	11.393	-2.220	1.00	0.00
ATOM	1296	CD1	PHE	A	87	4.761	11.563	-1.597	1.00	0.00

ATOM 1297	CD2	PHE	A	87	3.146	10.115	-2.591	1.00	0.00
ATOM 1298	CE1	PHE	A	87	5.583	10.480	-1.348	1.00	0.00
ATOM 1299	CE2	PHE	A	87	3.965	9.028	-2.346	1.00	0.00
ATOM 1300	CZ	PHE	A	87	5.185	9.212	-1.723	1.00	0.00
ATOM 1301	H	PHE	A	87	-0.071	12.260	-3.226	1.00	0.00
ATOM 1302	HA	PHE	A	87	1.514	12.011	-0.758	1.00	0.00
ATOM 1303	1HB	PHE	A	87	2.403	12.574	-3.540	1.00	0.00
ATOM 1304	2HB	PHE	A	87	3.194	13.468	-2.245	1.00	0.00
ATOM 1305	HD1	PHE	A	87	5.072	12.554	-1.303	1.00	0.00
ATOM 1306	HD2	PHE	A	87	2.193	9.971	-3.078	1.00	0.00
ATOM 1307	HE1	PHE	A	87	6.536	10.626	-0.861	1.00	0.00
ATOM 1308	HE2	PHE	A	87	3.651	8.038	-2.641	1.00	0.00
ATOM 1309	HZ	PHE	A	87	5.825	8.365	-1.530	1.00	0.00
ATOM 1310	N	SER	A	88	1.572	14.566	-0.354	1.00	0.00
ATOM 1311	CA	SER	A	88	1.256	15.926	0.068	1.00	0.00
ATOM 1312	C	SER	A	88	1.906	16.951	-0.859	1.00	0.00
ATOM 1313	O	SER	A	88	2.781	16.612	-1.656	1.00	0.00
ATOM 1314	CB	SER	A	88	1.719	16.156	1.508	1.00	0.00
ATOM 1315	OG	SER	A	88	0.639	16.033	2.418	1.00	0.00
ATOM 1316	H	SER	A	88	2.286	14.078	0.105	1.00	0.00
ATOM 1317	HA	SER	A	88	0.183	16.046	0.021	1.00	0.00
ATOM 1318	1HB	SER	A	88	2.472	15.425	1.762	1.00	0.00
ATOM 1319	2HB	SER	A	88	2.138	17.147	1.596	1.00	0.00
ATOM 1320	HG	SER	A	88	0.401	15.107	2.508	1.00	0.00
ATOM 1321	N	PRO	A	89	1.484	18.224	-0.766	1.00	0.00
ATOM 1322	CA	PRO	A	89	2.032	19.299	-1.599	1.00	0.00
ATOM 1323	C	PRO	A	89	3.491	19.600	-1.274	1.00	0.00

ATOM 1324	O	PRO A	89	4.244	20.068	-2.127	1.00	0.00
ATOM 1325	CB	PRO A	89	1.149	20.504	-1.259	1.00	0.00
ATOM 1326	CG	PRO A	89	0.606	20.208	0.096	1.00	0.00
ATOM 1327	CD	PRO A	89	0.445	18.715	0.159	1.00	0.00
ATOM 1328	HA	PRO A	89	1.940	19.069	-2.650	1.00	0.00
ATOM 1329	1HB	PRO A	89	1.748	21.404	-1.257	1.00	0.00
ATOM 1330	2HB	PRO A	89	0.358	20.593	-1.989	1.00	0.00
ATOM 1331	1HG	PRO A	89	1.301	20.542	0.852	1.00	0.00
ATOM 1332	2HG	PRO A	89	-0.351	20.693	0.223	1.00	0.00
ATOM 1333	1HD	PRO A	89	0.621	18.358	1.162	1.00	0.00
ATOM 1334	2HD	PRO A	89	-0.538	18.426	-0.180	1.00	0.00
ATOM 1335	N	LEU A	90	3.884	19.328	-0.034	1.00	0.00
ATOM 1336	CA	LEU A	90	5.254	19.569	0.404	1.00	0.00
ATOM 1337	C	LEU A	90	6.239	18.724	-0.398	1.00	0.00
ATOM 1338	O	LEU A	90	7.378	19.129	-0.624	1.00	0.00
ATOM 1339	CB	LEU A	90	5.397	19.260	1.896	1.00	0.00
ATOM 1340	CG	LEU A	90	4.934	20.375	2.835	1.00	0.00
ATOM 1341	CD1	LEU A	90	3.440	20.265	3.099	1.00	0.00
ATOM 1342	CD2	LEU A	90	5.714	20.329	4.140	1.00	0.00
ATOM 1343	H	LEU A	90	3.238	18.955	0.602	1.00	0.00
ATOM 1344	HA	LEU A	90	5.475	20.613	0.238	1.00	0.00
ATOM 1345	1HB	LEU A	90	4.822	18.372	2.114	1.00	0.00
ATOM 1346	2HB	LEU A	90	6.436	19.056	2.102	1.00	0.00
ATOM 1347	HG	LEU A	90	5.120	21.332	2.367	1.00	0.00
ATOM 1348	1HD1	LEU A	90	2.900	20.833	2.356	1.00	0.00
ATOM 1349	2HD1	LEU A	90	3.219	20.655	4.082	1.00	0.00
ATOM 1350	3HD1	LEU A	90	3.142	19.229	3.046	1.00	0.00

ATOM	1351	1HD2	LEU	A	90	6.741	20.067	3.937	1.00	0.00
ATOM	1352	2HD2	LEU	A	90	5.275	19.591	4.796	1.00	0.00
ATOM	1353	3HD2	LEU	A	90	5.678	21.299	4.616	1.00	0.00
ATOM	1354	N	ALA	A	91	5.790	17.547	-0.825	1.00	0.00
ATOM	1355	CA	ALA	A	91	6.632	16.645	-1.602	1.00	0.00
ATOM	1356	C	ALA	A	91	7.107	17.310	-2.890	1.00	0.00
ATOM	1357	O	ALA	A	91	6.529	18.298	-3.340	1.00	0.00
ATOM	1358	CB	ALA	A	91	5.877	15.362	-1.916	1.00	0.00
ATOM	1359	H	ALA	A	91	4.872	17.281	-0.612	1.00	0.00
ATOM	1360	HA	ALA	A	91	7.492	16.391	-1.000	1.00	0.00
ATOM	1361	1HB	ALA	A	91	6.554	14.522	-1.856	1.00	0.00
ATOM	1362	2HB	ALA	A	91	5.465	15.422	-2.913	1.00	0.00
ATOM	1363	3HB	ALA	A	91	5.077	15.232	-1.203	1.00	0.00
ATOM	1364	N	ARG	A	92	8.164	16.759	-3.478	1.00	0.00
ATOM	1365	CA	ARG	A	92	8.717	17.299	-4.715	1.00	0.00
ATOM	1366	C	ARG	A	92	9.768	16.361	-5.299	1.00	0.00
ATOM	1367	O	ARG	A	92	9.812	16.136	-6.508	1.00	0.00
ATOM	1368	CB	ARG	A	92	9.329	18.678	-4.465	1.00	0.00
ATOM	1369	CG	ARG	A	92	9.676	19.429	-5.740	1.00	0.00
ATOM	1370	CD	ARG	A	92	9.679	20.934	-5.519	1.00	0.00
ATOM	1371	NE	ARG	A	92	9.022	21.648	-6.611	1.00	0.00
ATOM	1372	CZ	ARG	A	92	7.712	21.607	-6.841	1.00	0.00
ATOM	1373	NH1	ARG	A	92	6.916	20.886	-6.060	1.00	0.00
ATOM	1374	NH2	ARG	A	92	7.195	22.286	-7.857	1.00	0.00
ATOM	1375	H	ARG	A	92	8.581	15.971	-3.072	1.00	0.00
ATOM	1376	HA	ARG	A	92	7.908	17.398	-5.424	1.00	0.00
ATOM	1377	1HB	ARG	A	92	8.628	19.275	-3.901	1.00	0.00

ATOM 1378	2HB	ARG A	92	10.233	18.558	-3.887	1.00	0.00
ATOM 1379	1HG	ARG A	92	10.657	19.124	-6.072	1.00	0.00
ATOM 1380	2HG	ARG A	92	8.946	19.187	-6.499	1.00	0.00
ATOM 1381	1HD	ARG A	92	9.161	21.151	-4.597	1.00	0.00
ATOM 1382	2HD	ARG A	92	10.702	21.272	-5.445	1.00	0.00
ATOM 1383	HE	ARG A	92	9.586	22.188	-7.203	1.00	0.00
ATOM 1384	1HH1	ARG A	92	7.299	20.372	-5.293	1.00	0.00
ATOM 1385	2HH1	ARG A	92	5.932	20.858	-6.238	1.00	0.00
ATOM 1386	1HH2	ARG A	92	7.790	22.830	-8.448	1.00	0.00
ATOM 1387	2HH2	ARG A	92	6.211	22.254	-8.030	1.00	0.00
ATOM 1388	N	ARG A	93	10.614	15.815	-4.431	1.00	0.00
ATOM 1389	CA	ARG A	93	11.666	14.901	-4.862	1.00	0.00
ATOM 1390	C	ARG A	93	11.228	13.449	-4.698	1.00	0.00
ATOM 1391	O	ARG A	93	12.006	12.600	-4.261	1.00	0.00
ATOM 1392	CB	ARG A	93	12.948	15.154	-4.063	1.00	0.00
ATOM 1393	CG	ARG A	93	13.401	16.605	-4.085	1.00	0.00
ATOM 1394	CD	ARG A	93	13.196	17.275	-2.736	1.00	0.00
ATOM 1395	NE	ARG A	93	14.043	16.689	-1.699	1.00	0.00
ATOM 1396	CZ	ARG A	93	15.338	16.966	-1.557	1.00	0.00
ATOM 1397	NH1	ARG A	93	15.936	17.818	-2.379	1.00	0.00
ATOM 1398	NH2	ARG A	93	16.035	16.388	-0.588	1.00	0.00
ATOM 1399	H	ARG A	93	10.530	16.032	-3.479	1.00	0.00
ATOM 1400	HA	ARG A	93	11.861	15.090	-5.907	1.00	0.00
ATOM 1401	1HB	ARG A	93	12.781	14.864	-3.036	1.00	0.00
ATOM 1402	2HB	ARG A	93	13.740	14.546	-4.476	1.00	0.00
ATOM 1403	1HG	ARG A	93	14.449	16.641	-4.337	1.00	0.00
ATOM 1404	2HG	ARG A	93	12.831	17.138	-4.832	1.00	0.00

ATOM	1405	1HD	ARG	A	93	13.432	18.325	-2.829	1.00	0.00
ATOM	1406	2HD	ARG	A	93	12.161	17.164	-2.446	1.00	0.00
ATOM	1407	HE	ARG	A	93	13.626	16.056	-1.078	1.00	0.00
ATOM	1408	1HH1	ARG	A	93	15.415	18.258	-3.111	1.00	0.00
ATOM	1409	2HH1	ARG	A	93	16.909	18.022	-2.267	1.00	0.00
ATOM	1410	1HH2	ARG	A	93	15.590	15.745	0.035	1.00	0.00
ATOM	1411	2HH2	ARG	A	93	17.007	16.595	-0.481	1.00	0.00
ATOM	1412	N	VAL	A	94	9.979	13.169	-5.054	1.00	0.00
ATOM	1413	CA	VAL	A	94	9.440	11.818	-4.948	1.00	0.00
ATOM	1414	C	VAL	A	94	9.559	11.074	-6.273	1.00	0.00
ATOM	1415	O	VAL	A	94	9.591	11.687	-7.339	1.00	0.00
ATOM	1416	CB	VAL	A	94	7.963	11.834	-4.512	1.00	0.00
ATOM	1417	CG1	VAL	A	94	7.480	10.423	-4.211	1.00	0.00
ATOM	1418	CG2	VAL	A	94	7.769	12.740	-3.307	1.00	0.00
ATOM	1419	H	VAL	A	94	9.406	13.887	-5.396	1.00	0.00
ATOM	1420	HA	VAL	A	94	10.010	11.290	-4.197	1.00	0.00
ATOM	1421	HB	VAL	A	94	7.372	12.225	-5.329	1.00	0.00
ATOM	1422	1HG1	VAL	A	94	7.545	9.821	-5.105	1.00	0.00
ATOM	1423	2HG1	VAL	A	94	6.455	10.458	-3.874	1.00	0.00
ATOM	1424	3HG1	VAL	A	94	8.097	9.988	-3.439	1.00	0.00
ATOM	1425	1HG2	VAL	A	94	6.734	12.715	-2.999	1.00	0.00
ATOM	1426	2HG2	VAL	A	94	8.044	13.751	-3.570	1.00	0.00
ATOM	1427	3HG2	VAL	A	94	8.394	12.397	-2.495	1.00	0.00
ATOM	1428	N	ASP	A	95	9.624	9.749	-6.198	1.00	0.00
ATOM	1429	CA	ASP	A	95	9.740	8.921	-7.392	1.00	0.00
ATOM	1430	C	ASP	A	95	8.922	7.641	-7.249	1.00	0.00
ATOM	1431	O	ASP	A	95	8.634	7.198	-6.137	1.00	0.00

ATOM	1432	CB	ASP	A	95	11.205	8.575	-7.660	1.00	0.00
ATOM	1433	CG	ASP	A	95	12.050	9.807	-7.921	1.00	0.00
ATOM	1434	OD1	ASP	A	95	12.359	10.076	-9.101	1.00	0.00
ATOM	1435	OD2	ASP	A	95	12.403	10.503	-6.946	1.00	0.00
ATOM	1436	H	ASP	A	95	9.594	9.317	-5.319	1.00	0.00
ATOM	1437	HA	ASP	A	95	9.354	9.487	-8.227	1.00	0.00
ATOM	1438	1HB	ASP	A	95	11.610	8.060	-6.801	1.00	0.00
ATOM	1439	2HB	ASP	A	95	11.266	7.930	-8.523	1.00	0.00
ATOM	1440	N	ARG	A	96	8.551	7.051	-8.380	1.00	0.00
ATOM	1441	CA	ARG	A	96	7.767	5.821	-8.381	1.00	0.00
ATOM	1442	C	ARG	A	96	8.510	4.703	-7.658	1.00	0.00
ATOM	1443	O	ARG	A	96	7.925	3.968	-6.862	1.00	0.00
ATOM	1444	CB	ARG	A	96	7.449	5.395	-9.815	1.00	0.00
ATOM	1445	CG	ARG	A	96	8.685	5.195	-10.679	1.00	0.00
ATOM	1446	CD	ARG	A	96	8.323	5.073	-12.150	1.00	0.00
ATOM	1447	NE	ARG	A	96	9.353	5.642	-13.016	1.00	0.00
ATOM	1448	CZ	ARG	A	96	9.157	5.951	-14.296	1.00	0.00
ATOM	1449	NH1	ARG	A	96	7.974	5.746	-14.862	1.00	0.00
ATOM	1450	NH2	ARG	A	96	10.148	6.465	-15.012	1.00	0.00
ATOM	1451	H	ARG	A	96	8.812	7.453	-9.236	1.00	0.00
ATOM	1452	HA	ARG	A	96	6.842	6.018	-7.860	1.00	0.00
ATOM	1453	1HB	ARG	A	96	6.900	4.467	-9.790	1.00	0.00
ATOM	1454	2HB	ARG	A	96	6.835	6.154	-10.276	1.00	0.00
ATOM	1455	1HG	ARG	A	96	9.344	6.040	-10.550	1.00	0.00
ATOM	1456	2HG	ARG	A	96	9.188	4.292	-10.364	1.00	0.00
ATOM	1457	1HD	ARG	A	96	8.202	4.027	-12.391	1.00	0.00
ATOM	1458	2HD	ARG	A	96	7.392	5.592	-12.323	1.00	0.00



ATOM	1459	HE	ARG	A	96	10.236	5.804	-12.623	1.00	0.00
ATOM	1460	1HH1	ARG	A	96	7.223	5.359	-14.327	1.00	0.00
ATOM	1461	2HH1	ARG	A	96	7.834	5.979	-15.824	1.00	0.00
ATOM	1462	1HH2	ARG	A	96	11.041	6.621	-14.591	1.00	0.00
ATOM	1463	2HH2	ARG	A	96	10.001	6.696	-15.975	1.00	0.00
ATOM	1464	N	VAL	A	97	9.803	4.578	-7.942	1.00	0.00
ATOM	1465	CA	VAL	A	97	10.626	3.549	-7.319	1.00	0.00
ATOM	1466	C	VAL	A	97	10.691	3.738	-5.807	1.00	0.00
ATOM	1467	O	VAL	A	97	10.839	2.773	-5.056	1.00	0.00
ATOM	1468	CB	VAL	A	97	12.058	3.553	-7.887	1.00	0.00
ATOM	1469	CG1	VAL	A	97	12.857	2.380	-7.340	1.00	0.00
ATOM	1470	CG2	VAL	A	97	12.030	3.525	-9.409	1.00	0.00
ATOM	1471	H	VAL	A	97	10.213	5.194	-8.584	1.00	0.00
ATOM	1472	HA	VAL	A	97	10.178	2.589	-7.533	1.00	0.00
ATOM	1473	HB	VAL	A	97	12.545	4.466	-7.575	1.00	0.00
ATOM	1474	1HG1	VAL	A	97	13.910	2.548	-7.514	1.00	0.00
ATOM	1475	2HG1	VAL	A	97	12.550	1.472	-7.837	1.00	0.00
ATOM	1476	3HG1	VAL	A	97	12.677	2.287	-6.280	1.00	0.00
ATOM	1477	1HG2	VAL	A	97	12.259	2.527	-9.755	1.00	0.00
ATOM	1478	2HG2	VAL	A	97	12.764	4.216	-9.795	1.00	0.00
ATOM	1479	3HG2	VAL	A	97	11.049	3.810	-9.758	1.00	0.00
ATOM	1480	N	ALA	A	98	10.579	4.987	-5.365	1.00	0.00
ATOM	1481	CA	ALA	A	98	10.625	5.302	-3.943	1.00	0.00
ATOM	1482	C	ALA	A	98	9.506	4.595	-3.186	1.00	0.00
ATOM	1483	O	ALA	A	98	9.761	3.814	-2.269	1.00	0.00
ATOM	1484	CB	ALA	A	98	10.536	6.806	-3.733	1.00	0.00
ATOM	1485	H	ALA	A	98	10.463	5.714	-6.013	1.00	0.00

ATOM 1486	HA	ALA A	98	11.575	4.964	-3.558	1.00	0.00
ATOM 1487	1HB	ALA A	98	10.618	7.028	-2.680	1.00	0.00
ATOM 1488	2HB	ALA A	98	9.590	7.166	-4.105	1.00	0.00
ATOM 1489	3HB	ALA A	98	11.340	7.291	-4.266	1.00	0.00
ATOM 1490	N	ILE A	99	8.266	4.870	-3.577	1.00	0.00
ATOM 1491	CA	ILE A	99	7.109	4.257	-2.935	1.00	0.00
ATOM 1492	C	ILE A	99	7.111	2.745	-3.136	1.00	0.00
ATOM 1493	O	ILE A	99	6.586	1.998	-2.309	1.00	0.00
ATOM 1494	CB	ILE A	99	5.787	4.836	-3.478	1.00	0.00
ATOM 1495	CG1	ILE A	99	5.805	6.365	-3.407	1.00	0.00
ATOM 1496	CG2	ILE A	99	4.605	4.280	-2.697	1.00	0.00
ATOM 1497	CD1	ILE A	99	4.981	7.029	-4.489	1.00	0.00
ATOM 1498	H	ILE A	99	8.126	5.499	-4.316	1.00	0.00
ATOM 1499	HA	ILE A	99	7.165	4.470	-1.877	1.00	0.00
ATOM 1500	HB	ILE A	99	5.680	4.532	-4.507	1.00	0.00
ATOM 1501	1HG1	ILE A	99	5.409	6.678	-2.453	1.00	0.00
ATOM 1502	2HG1	ILE A	99	6.823	6.713	-3.502	1.00	0.00
ATOM 1503	1HG2	ILE A	99	4.156	3.470	-3.253	1.00	0.00
ATOM 1504	2HG2	ILE A	99	3.875	5.060	-2.544	1.00	0.00
ATOM 1505	3HG2	ILE A	99	4.946	3.914	-1.740	1.00	0.00
ATOM 1506	1HD1	ILE A	99	5.350	6.727	-5.459	1.00	0.00
ATOM 1507	2HD1	ILE A	99	5.058	8.102	-4.393	1.00	0.00
ATOM 1508	3HD1	ILE A	99	3.948	6.732	-4.389	1.00	0.00
ATOM 1509	N	TYR A	100	7.705	2.300	-4.238	1.00	0.00
ATOM 1510	CA	TYR A	100	7.775	0.876	-4.547	1.00	0.00
ATOM 1511	C	TYR A	100	8.744	0.163	-3.611	1.00	0.00
ATOM 1512	O	TYR A	100	8.438	-0.905	-3.081	1.00	0.00

ATOM	1513	CB	TYR A 100	8.212	0.672	-5.998	1.00	0.00
ATOM	1514	CG	TYR A 100	8.231	-0.778	-6.428	1.00	0.00
ATOM	1515	CD1	TYR A 100	7.049	-1.490	-6.589	1.00	0.00
ATOM	1516	CD2	TYR A 100	9.430	-1.434	-6.673	1.00	0.00
ATOM	1517	CE1	TYR A 100	7.062	-2.816	-6.982	1.00	0.00
ATOM	1518	CE2	TYR A 100	9.452	-2.758	-7.067	1.00	0.00
ATOM	1519	CZ	TYR A 100	8.266	-3.445	-7.219	1.00	0.00
ATOM	1520	OH	TYR A 100	8.284	-4.763	-7.610	1.00	0.00
ATOM	1521	H	TYR A 100	8.105	2.943	-4.859	1.00	0.00
ATOM	1522	HA	TYR A 100	6.789	0.458	-4.415	1.00	0.00
ATOM	1523	1HB	TYR A 100	7.532	1.201	-6.650	1.00	0.00
ATOM	1524	2HB	TYR A 100	9.208	1.069	-6.127	1.00	0.00
ATOM	1525	HD1	TYR A 100	6.108	-0.995	-6.402	1.00	0.00
ATOM	1526	HD2	TYR A 100	10.358	-0.894	-6.552	1.00	0.00
ATOM	1527	HE1	TYR A 100	6.133	-3.353	-7.100	1.00	0.00
ATOM	1528	HE2	TYR A 100	10.396	-3.251	-7.252	1.00	0.00
ATOM	1529	HH	TYR A 100	7.875	-4.847	-8.475	1.00	0.00
ATOM	1530	N	GLU A 101	9.914	0.760	-3.413	1.00	0.00
ATOM	1531	CA	GLU A 101	10.930	0.182	-2.543	1.00	0.00
ATOM	1532	C	GLU A 101	10.484	0.212	-1.085	1.00	0.00
ATOM	1533	O	GLU A 101	10.536	-0.803	-0.389	1.00	0.00
ATOM	1534	CB	GLU A 101	12.251	0.937	-2.702	1.00	0.00
ATOM	1535	CG	GLU A 101	13.091	0.454	-3.872	1.00	0.00
ATOM	1536	CD	GLU A 101	14.576	0.666	-3.652	1.00	0.00
ATOM	1537	OE1	GLU A 101	15.380	-0.009	-4.329	1.00	0.00
ATOM	1538	OE2	GLU A 101	14.935	1.510	-2.803	1.00	0.00
ATOM	1539	H	GLU A 101	10.099	1.610	-3.866	1.00	0.00

ATOM 1540	HA	GLU A 101	11.076	-0.845	-2.841	1.00	0.00
ATOM 1541	1HB	GLU A 101	12.037	1.986	-2.849	1.00	0.00
ATOM 1542	2HB	GLU A 101	12.829	0.821	-1.799	1.00	0.00
ATOM 1543	1HG	GLU A 101	12.912	-0.602	-4.016	1.00	0.00
ATOM 1544	2HG	GLU A 101	12.793	0.992	-4.761	1.00	0.00
ATOM 1545	N	GLU A 102	10.047	1.381	-0.628	1.00	0.00
ATOM 1546	CA	GLU A 102	9.592	1.542	0.749	1.00	0.00
ATOM 1547	C	GLU A 102	8.436	0.593	1.058	1.00	0.00
ATOM 1548	O	GLU A 102	8.259	0.166	2.198	1.00	0.00
ATOM 1549	CB	GLU A 102	9.163	2.990	1.000	1.00	0.00
ATOM 1550	CG	GLU A 102	10.196	3.806	1.760	1.00	0.00
ATOM 1551	CD	GLU A 102	11.131	4.565	0.841	1.00	0.00
ATOM 1552	OE1	GLU A 102	11.286	4.147	-0.326	1.00	0.00
ATOM 1553	OE2	GLU A 102	11.709	5.578	1.287	1.00	0.00
ATOM 1554	H	GLU A 102	10.029	2.153	-1.230	1.00	0.00
ATOM 1555	HA	GLU A 102	10.420	1.304	1.401	1.00	0.00
ATOM 1556	1HB	GLU A 102	8.987	3.469	0.048	1.00	0.00
ATOM 1557	2HB	GLU A 102	8.245	2.990	1.569	1.00	0.00
ATOM 1558	1HG	GLU A 102	9.681	4.516	2.390	1.00	0.00
ATOM 1559	2HG	GLU A 102	10.781	3.138	2.375	1.00	0.00
ATOM 1560	N	PHE A 103	7.652	0.269	0.035	1.00	0.00
ATOM 1561	CA	PHE A 103	6.513	-0.627	0.196	1.00	0.00
ATOM 1562	C	PHE A 103	6.954	-2.086	0.132	1.00	0.00
ATOM 1563	O	PHE A 103	6.369	-2.950	0.784	1.00	0.00
ATOM 1564	CB	PHE A 103	5.464	-0.349	-0.882	1.00	0.00
ATOM 1565	CG	PHE A 103	4.245	-1.221	-0.776	1.00	0.00
ATOM 1566	CD1	PHE A 103	3.334	-1.041	0.253	1.00	0.00

ATOM	1567	CD2	PHE A 103	4.009	-2.219	-1.708	1.00	0.00
ATOM	1568	CE1	PHE A 103	2.212	-1.840	0.351	1.00	0.00
ATOM	1569	CE2	PHE A 103	2.889	-3.022	-1.614	1.00	0.00
ATOM	1570	CZ	PHE A 103	1.989	-2.833	-0.584	1.00	0.00
ATOM	1571	H	PHE A 103	7.843	0.642	-0.851	1.00	0.00
ATOM	1572	HA	PHE A 103	6.078	-0.437	1.166	1.00	0.00
ATOM	1573	1HB	PHE A 103	5.144	0.679	-0.806	1.00	0.00
ATOM	1574	2HB	PHE A 103	5.907	-0.510	-1.854	1.00	0.00
ATOM	1575	HD1	PHE A 103	3.509	-0.264	0.985	1.00	0.00
ATOM	1576	HD2	PHE A 103	4.713	-2.369	-2.513	1.00	0.00
ATOM	1577	HE1	PHE A 103	1.510	-1.691	1.157	1.00	0.00
ATOM	1578	HE2	PHE A 103	2.716	-3.798	-2.347	1.00	0.00
ATOM	1579	HZ	PHE A 103	1.111	-3.459	-0.510	1.00	0.00
ATOM	1580	N	LEU A 104	7.987	-2.353	-0.661	1.00	0.00
ATOM	1581	CA	LEU A 104	8.504	-3.708	-0.813	1.00	0.00
ATOM	1582	C	LEU A 104	9.184	-4.183	0.467	1.00	0.00
ATOM	1583	O	LEU A 104	8.957	-5.303	0.925	1.00	0.00
ATOM	1584	CB	LEU A 104	9.492	-3.771	-1.979	1.00	0.00
ATOM	1585	CG	LEU A 104	8.858	-3.951	-3.360	1.00	0.00
ATOM	1586	CD1	LEU A 104	9.934	-4.089	-4.427	1.00	0.00
ATOM	1587	CD2	LEU A 104	7.938	-5.162	-3.370	1.00	0.00
ATOM	1588	H	LEU A 104	8.411	-1.621	-1.157	1.00	0.00
ATOM	1589	HA	LEU A 104	7.669	-4.360	-1.025	1.00	0.00
ATOM	1590	1HB	LEU A 104	10.067	-2.856	-1.986	1.00	0.00
ATOM	1591	2HB	LEU A 104	10.167	-4.597	-1.808	1.00	0.00
ATOM	1592	HG	LEU A 104	8.267	-3.078	-3.595	1.00	0.00
ATOM	1593	1HD1	LEU A 104	10.732	-4.715	-4.054	1.00	0.00

ATOM	1594	2HD1	LEU	A	104	10.326	-3.113	-4.671	1.00	0.00
ATOM	1595	3HD1	LEU	A	104	9.507	-4.538	-5.312	1.00	0.00
ATOM	1596	1HD2	LEU	A	104	7.940	-5.608	-4.354	1.00	0.00
ATOM	1597	2HD2	LEU	A	104	6.935	-4.853	-3.116	1.00	0.00
ATOM	1598	3HD2	LEU	A	104	8.286	-5.885	-2.647	1.00	0.00
ATOM	1599	N	ARG	A	105	10.022	-3.325	1.040	1.00	0.00
ATOM	1600	CA	ARG	A	105	10.739	-3.658	2.266	1.00	0.00
ATOM	1601	C	ARG	A	105	9.771	-3.976	3.402	1.00	0.00
ATOM	1602	O	ARG	A	105	10.048	-4.831	4.243	1.00	0.00
ATOM	1603	CB	ARG	A	105	11.658	-2.503	2.671	1.00	0.00
ATOM	1604	CG	ARG	A	105	12.992	-2.960	3.240	1.00	0.00
ATOM	1605	CD	ARG	A	105	14.076	-1.917	3.022	1.00	0.00
ATOM	1606	NE	ARG	A	105	14.793	-2.127	1.767	1.00	0.00
ATOM	1607	CZ	ARG	A	105	15.983	-1.595	1.494	1.00	0.00
ATOM	1608	NH1	ARG	A	105	16.590	-0.821	2.385	1.00	0.00
ATOM	1609	NH2	ARG	A	105	16.566	-1.837	0.329	1.00	0.00
ATOM	1610	H	ARG	A	105	10.164	-2.448	0.626	1.00	0.00
ATOM	1611	HA	ARG	A	105	11.342	-4.531	2.069	1.00	0.00
ATOM	1612	1HB	ARG	A	105	11.852	-1.890	1.804	1.00	0.00
ATOM	1613	2HB	ARG	A	105	11.158	-1.906	3.420	1.00	0.00
ATOM	1614	1HG	ARG	A	105	12.880	-3.132	4.301	1.00	0.00
ATOM	1615	2HG	ARG	A	105	13.284	-3.879	2.753	1.00	0.00
ATOM	1616	1HD	ARG	A	105	13.619	-0.939	3.004	1.00	0.00
ATOM	1617	2HD	ARG	A	105	14.779	-1.971	3.841	1.00	0.00
ATOM	1618	HE	ARG	A	105	14.367	-2.695	1.091	1.00	0.00
ATOM	1619	1HH1	ARG	A	105	16.156	-0.635	3.266	1.00	0.00
ATOM	1620	2HH1	ARG	A	105	17.484	-0.424	2.175	1.00	0.00

ATOM 1621	1HH2	ARG	A	105	16.113	-2.418	-0.346	1.00	0.00
ATOM 1622	2HH2	ARG	A	105	17.459	-1.437	0.124	1.00	0.00
ATOM 1623	N	MET	A	106	8.638	-3.281	3.424	1.00	0.00
ATOM 1624	CA	MET	A	106	7.635	-3.492	4.461	1.00	0.00
ATOM 1625	C	MET	A	106	6.735	-4.678	4.127	1.00	0.00
ATOM 1626	O	MET	A	106	6.151	-5.294	5.018	1.00	0.00
ATOM 1627	CB	MET	A	106	6.787	-2.233	4.646	1.00	0.00
ATOM 1628	CG	MET	A	106	6.192	-2.104	6.038	1.00	0.00
ATOM 1629	SD	MET	A	106	7.113	-0.961	7.086	1.00	0.00
ATOM 1630	CE	MET	A	106	7.114	0.511	6.065	1.00	0.00
ATOM 1631	H	MET	A	106	8.474	-2.611	2.728	1.00	0.00
ATOM 1632	HA	MET	A	106	8.155	-3.701	5.384	1.00	0.00
ATOM 1633	1HB	MET	A	106	7.404	-1.367	4.458	1.00	0.00
ATOM 1634	2HB	MET	A	106	5.977	-2.250	3.932	1.00	0.00
ATOM 1635	1HG	MET	A	106	5.176	-1.751	5.950	1.00	0.00
ATOM 1636	2HG	MET	A	106	6.192	-3.079	6.505	1.00	0.00
ATOM 1637	1HE	MET	A	106	7.836	0.398	5.272	1.00	0.00
ATOM 1638	2HE	MET	A	106	7.373	1.367	6.670	1.00	0.00
ATOM 1639	3HE	MET	A	106	6.131	0.655	5.640	1.00	0.00
ATOM 1640	N	THR	A	107	6.623	-4.993	2.840	1.00	0.00
ATOM 1641	CA	THR	A	107	5.789	-6.106	2.399	1.00	0.00
ATOM 1642	C	THR	A	107	6.613	-7.379	2.230	1.00	0.00
ATOM 1643	O	THR	A	107	6.284	-8.236	1.409	1.00	0.00
ATOM 1644	CB	THR	A	107	5.096	-5.757	1.080	1.00	0.00
ATOM 1645	OG1	THR	A	107	6.050	-5.488	0.068	1.00	0.00
ATOM 1646	CG2	THR	A	107	4.184	-4.554	1.184	1.00	0.00
ATOM 1647	H	THR	A	107	7.109	-4.465	2.173	1.00	0.00

ATOM 1648	HA	THR A 107	5.038	-6.275	3.154	1.00	0.00
ATOM 1649	HB	THR A 107	4.497	-6.600	0.767	1.00	0.00
ATOM 1650	HG1	THR A 107	5.597	-5.256	-0.747	1.00	0.00
ATOM 1651	1HG2	THR A 107	4.371	-3.887	0.355	1.00	0.00
ATOM 1652	2HG2	THR A 107	4.376	-4.036	2.112	1.00	0.00
ATOM 1653	3HG2	THR A 107	3.155	-4.879	1.158	1.00	0.00
ATOM 1654	N	HIS A 108	7.683	-7.501	3.011	1.00	0.00
ATOM 1655	CA	HIS A 108	8.550	-8.673	2.946	1.00	0.00
ATOM 1656	C	HIS A 108	9.019	-8.925	1.515	1.00	0.00
ATOM 1657	O	HIS A 108	8.737	-9.972	0.931	1.00	0.00
ATOM 1658	CB	HIS A 108	7.818	-9.905	3.484	1.00	0.00
ATOM 1659	CG	HIS A 108	8.073	-10.166	4.937	1.00	0.00
ATOM 1660	ND1	HIS A 108	9.174	-10.860	5.395	1.00	0.00
ATOM 1661	CD2	HIS A 108	7.362	-9.823	6.037	1.00	0.00
ATOM 1662	CE1	HIS A 108	9.129	-10.932	6.713	1.00	0.00
ATOM 1663	NE2	HIS A 108	8.041	-10.311	7.127	1.00	0.00
ATOM 1664	H	HIS A 108	7.895	-6.786	3.647	1.00	0.00
ATOM 1665	HA	HIS A 108	9.414	-8.480	3.565	1.00	0.00
ATOM 1666	1HB	HIS A 108	6.754	-9.768	3.354	1.00	0.00
ATOM 1667	2HB	HIS A 108	8.134	-10.776	2.928	1.00	0.00
ATOM 1668	HD1	HIS A 108	9.882	-11.243	4.836	1.00	0.00
ATOM 1669	HD2	HIS A 108	6.435	-9.268	6.055	1.00	0.00
ATOM 1670	HE1	HIS A 108	9.859	-11.416	7.344	1.00	0.00
ATOM 1671	HE2	HIS A 108	7.807	-10.144	8.064	1.00	0.00
ATOM 1672	N	ASN A 109	9.733	-7.955	0.953	1.00	0.00
ATOM 1673	CA	ASN A 109	10.236	-8.070	-0.410	1.00	0.00
ATOM 1674	C	ASN A 109	9.088	-8.201	-1.406	1.00	0.00



ATOM 1675	O	ASN A 109	9.248	-8.779	-2.480	1.00	0.00
ATOM 1676	CB	ASN A 109	11.172	-9.274	-0.532	1.00	0.00
ATOM 1677	CG	ASN A 109	12.614	-8.920	-0.229	1.00	0.00
ATOM 1678	OD1	ASN A 109	13.166	-7.977	-0.796	1.00	0.00
ATOM 1679	ND2	ASN A 109	13.233	-9.678	0.670	1.00	0.00
ATOM 1680	H	ASN A 109	9.923	-7.143	1.466	1.00	0.00
ATOM 1681	HA	ASN A 109	10.791	-7.171	-0.635	1.00	0.00
ATOM 1682	1HB	ASN A 109	10.855	-10.039	0.162	1.00	0.00
ATOM 1683	2HB	ASN A 109	11.119	-9.663	-1.538	1.00	0.00
ATOM 1684	1HD2	ASN A 109	12.731	-10.412	1.081	1.00	0.00
ATOM 1685	2HD2	ASN A 109	14.166	-9.471	0.885	1.00	0.00
ATOM 1686	N	GLY A 110	7.929	-7.658	-1.041	1.00	0.00
ATOM 1687	CA	GLY A 110	6.772	-7.726	-1.915	1.00	0.00
ATOM 1688	C	GLY A 110	6.152	-9.109	-1.951	1.00	0.00
ATOM 1689	O	GLY A 110	5.697	-9.565	-3.001	1.00	0.00
ATOM 1690	H	GLY A 110	7.859	-7.209	-0.174	1.00	0.00
ATOM 1691	1HA	GLY A 110	6.032	-7.021	-1.567	1.00	0.00
ATOM 1692	2HA	GLY A 110	7.073	-7.453	-2.915	1.00	0.00
ATOM 1693	N	THR A 111	6.134	-9.778	-0.803	1.00	0.00
ATOM 1694	CA	THR A 111	5.565	-11.118	-0.709	1.00	0.00
ATOM 1695	C	THR A 111	4.362	-11.141	0.229	1.00	0.00
ATOM 1696	O	THR A 111	3.404	-11.880	0.006	1.00	0.00
ATOM 1697	CB	THR A 111	6.622	-12.111	-0.222	1.00	0.00
ATOM 1698	OG1	THR A 111	7.042	-11.793	1.092	1.00	0.00
ATOM 1699	CG2	THR A 111	7.854	-12.151	-1.100	1.00	0.00
ATOM 1700	H	THR A 111	6.513	-9.362	-0.001	1.00	0.00
ATOM 1701	HA	THR A 111	5.240	-11.409	-1.697	1.00	0.00

ATOM 1702	HB	THR A 111	6.191	-13.101	-0.210	1.00	0.00
ATOM 1703	HG1	THR A 111	7.221	-10.851	1.152	1.00	0.00
ATOM 1704	1HG2	THR A 111	7.847	-11.305	-1.771	1.00	0.00
ATOM 1705	2HG2	THR A 111	7.857	-13.066	-1.674	1.00	0.00
ATOM 1706	3HG2	THR A 111	8.739	-12.113	-0.482	1.00	0.00
ATOM 1707	N	GLN A 112	4.419	-10.327	1.279	1.00	0.00
ATOM 1708	CA	GLN A 112	3.332	-10.259	2.249	1.00	0.00
ATOM 1709	C	GLN A 112	3.225	-8.863	2.853	1.00	0.00
ATOM 1710	O	GLN A 112	4.197	-8.331	3.389	1.00	0.00
ATOM 1711	CB	GLN A 112	3.545	-11.293	3.356	1.00	0.00
ATOM 1712	CG	GLN A 112	2.443	-11.301	4.403	1.00	0.00
ATOM 1713	CD	GLN A 112	2.807	-12.119	5.627	1.00	0.00
ATOM 1714	OE1	GLN A 112	2.953	-13.339	5.551	1.00	0.00
ATOM 1715	NE2	GLN A 112	2.955	-11.449	6.764	1.00	0.00
ATOM 1716	H	GLN A 112	5.208	-9.761	1.406	1.00	0.00
ATOM 1717	HA	GLN A 112	2.412	-10.484	1.731	1.00	0.00
ATOM 1718	1HB	GLN A 112	3.596	-12.275	2.911	1.00	0.00
ATOM 1719	2HB	GLN A 112	4.481	-11.084	3.853	1.00	0.00
ATOM 1720	1HG	GLN A 112	2.251	-10.284	4.714	1.00	0.00
ATOM 1721	2HG	GLN A 112	1.549	-11.717	3.963	1.00	0.00
ATOM 1722	1HE2	GLN A 112	2.824	-10.478	6.750	1.00	0.00
ATOM 1723	2HE2	GLN A 112	3.191	-11.953	7.571	1.00	0.00
ATOM 1724	N	LEU A 113	2.036	-8.277	2.764	1.00	0.00
ATOM 1725	CA	LEU A 113	1.798	-6.943	3.302	1.00	0.00
ATOM 1726	C	LEU A 113	1.154	-7.024	4.682	1.00	0.00
ATOM 1727	O	LEU A 113	-0.055	-7.219	4.805	1.00	0.00
ATOM 1728	CB	LEU A 113	0.905	-6.140	2.349	1.00	0.00

ATOM 1729	CG	LEU A 113	0.529	-4.729	2.821	1.00	0.00
ATOM 1730	CD1	LEU A 113	-0.655	-4.782	3.772	1.00	0.00
ATOM 1731	CD2	LEU A 113	1.716	-4.043	3.482	1.00	0.00
ATOM 1732	H	LEU A 113	1.301	-8.753	2.325	1.00	0.00
ATOM 1733	HA	LEU A 113	2.752	-6.447	3.391	1.00	0.00
ATOM 1734	1HB	LEU A 113	1.417	-6.053	1.402	1.00	0.00
ATOM 1735	2HB	LEU A 113	-0.007	-6.696	2.193	1.00	0.00
ATOM 1736	HG	LEU A 113	0.239	-4.140	1.963	1.00	0.00
ATOM 1737	1HD1	LEU A 113	-1.309	-3.942	3.580	1.00	0.00
ATOM 1738	2HD1	LEU A 113	-0.302	-4.735	4.791	1.00	0.00
ATOM 1739	3HD1	LEU A 113	-1.200	-5.702	3.621	1.00	0.00
ATOM 1740	1HD2	LEU A 113	2.634	-4.486	3.125	1.00	0.00
ATOM 1741	2HD2	LEU A 113	1.650	-4.164	4.553	1.00	0.00
ATOM 1742	3HD2	LEU A 113	1.706	-2.992	3.238	1.00	0.00
ATOM 1743	N	LEU A 114	1.975	-6.879	5.720	1.00	0.00
ATOM 1744	CA	LEU A 114	1.493	-6.938	7.097	1.00	0.00
ATOM 1745	C	LEU A 114	0.879	-8.303	7.403	1.00	0.00
ATOM 1746	O	LEU A 114	1.524	-9.163	8.002	1.00	0.00
ATOM 1747	CB	LEU A 114	0.469	-5.831	7.353	1.00	0.00
ATOM 1748	CG	LEU A 114	1.054	-4.422	7.479	1.00	0.00
ATOM 1749	CD1	LEU A 114	-0.033	-3.420	7.845	1.00	0.00
ATOM 1750	CD2	LEU A 114	2.174	-4.401	8.510	1.00	0.00
ATOM 1751	H	LEU A 114	2.929	-6.729	5.555	1.00	0.00
ATOM 1752	HA	LEU A 114	2.341	-6.787	7.748	1.00	0.00
ATOM 1753	1HB	LEU A 114	-0.242	-5.832	6.540	1.00	0.00
ATOM 1754	2HB	LEU A 114	-0.056	-6.060	8.269	1.00	0.00
ATOM 1755	HG	LEU A 114	1.470	-4.128	6.527	1.00	0.00

ATOM	1756	1HD1	LEU	A	114	-0.084	-2.652	7.088	1.00	0.00
ATOM	1757	2HD1	LEU	A	114	0.197	-2.969	8.799	1.00	0.00
ATOM	1758	3HD1	LEU	A	114	-0.985	-3.927	7.909	1.00	0.00
ATOM	1759	1HD2	LEU	A	114	3.024	-4.946	8.129	1.00	0.00
ATOM	1760	2HD2	LEU	A	114	1.830	-4.861	9.425	1.00	0.00
ATOM	1761	3HD2	LEU	A	114	2.461	-3.379	8.707	1.00	0.00
ATOM	1762	N	ASN	A	115	-0.369	-8.493	6.989	1.00	0.00
ATOM	1763	CA	ASN	A	115	-1.068	-9.751	7.219	1.00	0.00
ATOM	1764	C	ASN	A	115	-1.808	-10.202	5.963	1.00	0.00
ATOM	1765	O	ASN	A	115	-2.955	-10.643	6.029	1.00	0.00
ATOM	1766	CB	ASN	A	115	-2.053	-9.607	8.382	1.00	0.00
ATOM	1767	CG	ASN	A	115	-1.404	-9.872	9.726	1.00	0.00
ATOM	1768	OD1	ASN	A	115	-1.682	-10.881	10.375	1.00	0.00
ATOM	1769	ND2	ASN	A	115	-0.533	-8.964	10.153	1.00	0.00
ATOM	1770	H	ASN	A	115	-0.832	-7.769	6.516	1.00	0.00
ATOM	1771	HA	ASN	A	115	-0.331	-10.498	7.475	1.00	0.00
ATOM	1772	1HB	ASN	A	115	-2.449	-8.603	8.386	1.00	0.00
ATOM	1773	2HB	ASN	A	115	-2.863	-10.309	8.249	1.00	0.00
ATOM	1774	1HD2	ASN	A	115	-0.361	-8.185	9.583	1.00	0.00
ATOM	1775	2HD2	ASN	A	115	-0.098	-9.110	11.018	1.00	0.00
ATOM	1776	N	PHE	A	116	-1.143	-10.087	4.818	1.00	0.00
ATOM	1777	CA	PHE	A	116	-1.737	-10.482	3.546	1.00	0.00
ATOM	1778	C	PHE	A	116	-0.660	-10.856	2.534	1.00	0.00
ATOM	1779	O	PHE	A	116	0.024	-9.988	1.990	1.00	0.00
ATOM	1780	CB	PHE	A	116	-2.604	-9.350	2.991	1.00	0.00
ATOM	1781	CG	PHE	A	116	-3.973	-9.283	3.605	1.00	0.00
ATOM	1782	CD1	PHE	A	116	-5.029	-9.992	3.055	1.00	0.00

ATOM 1783	CD2	PHE A 116	-4.204	-8.513	4.732	1.00	0.00
ATOM 1784	CE1	PHE A 116	-6.290	-9.932	3.617	1.00	0.00
ATOM 1785	CE2	PHE A 116	-5.463	-8.449	5.299	1.00	0.00
ATOM 1786	CZ	PHE A 116	-6.507	-9.160	4.741	1.00	0.00
ATOM 1787	H	PHE A 116	-0.230	-9.727	4.828	1.00	0.00
ATOM 1788	HA	PHE A 116	-2.361	-11.344	3.726	1.00	0.00
ATOM 1789	1HB	PHE A 116	-2.112	-8.406	3.174	1.00	0.00
ATOM 1790	2HB	PHE A 116	-2.722	-9.487	1.925	1.00	0.00
ATOM 1791	HD1	PHE A 116	-4.860	-10.597	2.176	1.00	0.00
ATOM 1792	HD2	PHE A 116	-3.388	-7.956	5.170	1.00	0.00
ATOM 1793	HE1	PHE A 116	-7.104	-10.489	3.178	1.00	0.00
ATOM 1794	HE2	PHE A 116	-5.630	-7.844	6.178	1.00	0.00
ATOM 1795	HZ	PHE A 116	-7.491	-9.112	5.182	1.00	0.00
ATOM 1796	N	THR A 117	-0.517	-12.153	2.282	1.00	0.00
ATOM 1797	CA	THR A 117	0.476	-12.641	1.331	1.00	0.00
ATOM 1798	C	THR A 117	0.074	-12.293	-0.099	1.00	0.00
ATOM 1799	O	THR A 117	-0.920	-12.803	-0.615	1.00	0.00
ATOM 1800	CB	THR A 117	0.645	-14.154	1.469	1.00	0.00
ATOM 1801	OG1	THR A 117	-0.595	-14.816	1.294	1.00	0.00
ATOM 1802	CG2	THR A 117	1.202	-14.573	2.813	1.00	0.00
ATOM 1803	H	THR A 117	-1.093	-12.797	2.744	1.00	0.00
ATOM 1804	HA	THR A 117	1.415	-12.160	1.556	1.00	0.00
ATOM 1805	HB	THR A 117	1.326	-14.501	0.706	1.00	0.00
ATOM 1806	HG1	THR A 117	-0.834	-14.809	0.364	1.00	0.00
ATOM 1807	1HG2	THR A 117	2.106	-14.017	3.017	1.00	0.00
ATOM 1808	2HG2	THR A 117	1.425	-15.630	2.797	1.00	0.00
ATOM 1809	3HG2	THR A 117	0.474	-14.370	3.584	1.00	0.00

ATOM 1810	N	LEU A 118	0.850	-11.420	-0.733	1.00	0.00
ATOM 1811	CA	LEU A 118	0.569	-11.007	-2.103	1.00	0.00
ATOM 1812	C	LEU A 118	1.758	-11.284	-3.016	1.00	0.00
ATOM 1813	O	LEU A 118	2.886	-11.449	-2.551	1.00	0.00
ATOM 1814	CB	LEU A 118	0.202	-9.523	-2.150	1.00	0.00
ATOM 1815	CG	LEU A 118	1.212	-8.579	-1.494	1.00	0.00
ATOM 1816	CD1	LEU A 118	2.247	-8.116	-2.509	1.00	0.00
ATOM 1817	CD2	LEU A 118	0.498	-7.387	-0.873	1.00	0.00
ATOM 1818	H	LEU A 118	1.629	-11.047	-0.271	1.00	0.00
ATOM 1819	HA	LEU A 118	-0.274	-11.585	-2.453	1.00	0.00
ATOM 1820	1HB	LEU A 118	0.092	-9.234	-3.185	1.00	0.00
ATOM 1821	2HB	LEU A 118	-0.749	-9.394	-1.656	1.00	0.00
ATOM 1822	HG	LEU A 118	1.730	-9.106	-0.708	1.00	0.00
ATOM 1823	1HD1	LEU A 118	1.866	-8.270	-3.508	1.00	0.00
ATOM 1824	2HD1	LEU A 118	3.157	-8.682	-2.379	1.00	0.00
ATOM 1825	3HD1	LEU A 118	2.452	-7.066	-2.360	1.00	0.00
ATOM 1826	1HD2	LEU A 118	-0.494	-7.304	-1.292	1.00	0.00
ATOM 1827	2HD2	LEU A 118	1.053	-6.485	-1.080	1.00	0.00
ATOM 1828	3HD2	LEU A 118	0.426	-7.528	0.196	1.00	0.00
ATOM 1829	N	ASP A 119	1.495	-11.337	-4.318	1.00	0.00
ATOM 1830	CA	ASP A 119	2.540	-11.598	-5.301	1.00	0.00
ATOM 1831	C	ASP A 119	3.645	-10.550	-5.218	1.00	0.00
ATOM 1832	O	ASP A 119	3.548	-9.589	-4.456	1.00	0.00
ATOM 1833	CB	ASP A 119	1.946	-11.618	-6.711	1.00	0.00
ATOM 1834	CG	ASP A 119	2.646	-12.611	-7.618	1.00	0.00
ATOM 1835	OD1	ASP A 119	2.953	-12.247	-8.774	1.00	0.00
ATOM 1836	OD2	ASP A 119	2.889	-13.752	-7.173	1.00	0.00

ATOM	1837	H	ASP	A	119	0.575	-11.199	-4.624	1.00	0.00
ATOM	1838	HA	ASP	A	119	2.963	-12.567	-5.085	1.00	0.00
ATOM	1839	1HB	ASP	A	119	0.903	-11.887	-6.652	1.00	0.00
ATOM	1840	2HB	ASP	A	119	2.038	-10.634	-7.146	1.00	0.00
ATOM	1841	N	ARG	A	120	4.696	-10.745	-6.008	1.00	0.00
ATOM	1842	CA	ARG	A	120	5.822	-9.819	-6.025	1.00	0.00
ATOM	1843	C	ARG	A	120	5.861	-9.035	-7.334	1.00	0.00
ATOM	1844	O	ARG	A	120	5.705	-7.814	-7.342	1.00	0.00
ATOM	1845	CB	ARG	A	120	7.135	-10.578	-5.833	1.00	0.00
ATOM	1846	CG	ARG	A	120	8.246	-9.727	-5.243	1.00	0.00
ATOM	1847	CD	ARG	A	120	9.616	-10.209	-5.691	1.00	0.00
ATOM	1848	NE	ARG	A	120	9.975	-9.689	-7.009	1.00	0.00
ATOM	1849	CZ	ARG	A	120	10.223	-8.406	-7.256	1.00	0.00
ATOM	1850	NH1	ARG	A	120	10.153	-7.508	-6.281	1.00	0.00
ATOM	1851	NH2	ARG	A	120	10.543	-8.017	-8.484	1.00	0.00
ATOM	1852	H	ARG	A	120	4.715	-11.531	-6.593	1.00	0.00
ATOM	1853	HA	ARG	A	120	5.694	-9.126	-5.207	1.00	0.00
ATOM	1854	1HB	ARG	A	120	6.962	-11.413	-5.172	1.00	0.00
ATOM	1855	2HB	ARG	A	120	7.467	-10.951	-6.791	1.00	0.00
ATOM	1856	1HG	ARG	A	120	8.112	-8.705	-5.565	1.00	0.00
ATOM	1857	2HG	ARG	A	120	8.191	-9.776	-4.166	1.00	0.00
ATOM	1858	1HD	ARG	A	120	10.352	-9.879	-4.973	1.00	0.00
ATOM	1859	2HD	ARG	A	120	9.609	-11.288	-5.730	1.00	0.00
ATOM	1860	HE	ARG	A	120	10.032	-10.330	-7.748	1.00	0.00
ATOM	1861	1HH1	ARG	A	120	9.913	-7.794	-5.354	1.00	0.00
ATOM	1862	2HH1	ARG	A	120	10.342	-6.545	-6.474	1.00	0.00
ATOM	1863	1HH2	ARG	A	120	10.597	-8.689	-9.223	1.00	0.00

ATOM	1864	2HH2	ARG	A	120	10.729	-7.052	-8.671	1.00	0.00
ATOM	1865	N	LYS	A	121	6.072	-9.746	-8.437	1.00	0.00
ATOM	1866	CA	LYS	A	121	6.131	-9.118	-9.753	1.00	0.00
ATOM	1867	C	LYS	A	121	4.856	-8.331	-10.042	1.00	0.00
ATOM	1868	O	LYS	A	121	4.861	-7.393	-10.841	1.00	0.00
ATOM	1869	CB	LYS	A	121	6.348	-10.176	-10.836	1.00	0.00
ATOM	1870	CG	LYS	A	121	5.305	-11.281	-10.826	1.00	0.00
ATOM	1871	CD	LYS	A	121	5.903	-12.614	-11.242	1.00	0.00
ATOM	1872	CE	LYS	A	121	4.947	-13.764	-10.968	1.00	0.00
ATOM	1873	NZ	LYS	A	121	5.645	-14.940	-10.379	1.00	0.00
ATOM	1874	H	LYS	A	121	6.189	-10.717	-8.366	1.00	0.00
ATOM	1875	HA	LYS	A	121	6.968	-8.435	-9.756	1.00	0.00
ATOM	1876	1HB	LYS	A	121	6.323	-9.694	-11.803	1.00	0.00
ATOM	1877	2HB	LYS	A	121	7.320	-10.626	-10.694	1.00	0.00
ATOM	1878	1HG	LYS	A	121	4.902	-11.374	-9.828	1.00	0.00
ATOM	1879	2HG	LYS	A	121	4.513	-11.020	-11.513	1.00	0.00
ATOM	1880	1HD	LYS	A	121	6.121	-12.586	-12.299	1.00	0.00
ATOM	1881	2HD	LYS	A	121	6.815	-12.777	-10.688	1.00	0.00
ATOM	1882	1HE	LYS	A	121	4.186	-13.428	-10.280	1.00	0.00
ATOM	1883	2HE	LYS	A	121	4.484	-14.060	-11.899	1.00	0.00
ATOM	1884	1HZ	LYS	A	121	6.290	-15.361	-11.079	1.00	0.00
ATOM	1885	2HZ	LYS	A	121	4.953	-15.659	-10.087	1.00	0.00
ATOM	1886	3HZ	LYS	A	121	6.197	-14.648	-9.547	1.00	0.00
ATOM	1887	N	SER	A	122	3.764	-8.718	-9.389	1.00	0.00
ATOM	1888	CA	SER	A	122	2.482	-8.047	-9.579	1.00	0.00
ATOM	1889	C	SER	A	122	2.538	-6.614	-9.060	1.00	0.00
ATOM	1890	O	SER	A	122	2.007	-5.696	-9.686	1.00	0.00



ATOM	1891	CB	SER A 122	1.370	-8.816	-8.865	1.00	0.00
ATOM	1892	OG	SER A 122	0.092	-8.322	-9.231	1.00	0.00
ATOM	1893	H	SER A 122	3.820	-9.471	-8.766	1.00	0.00
ATOM	1894	HA	SER A 122	2.273	-8.026	-10.637	1.00	0.00
ATOM	1895	1HB	SER A 122	1.427	-9.861	-9.133	1.00	0.00
ATOM	1896	2HB	SER A 122	1.490	-8.712	-7.797	1.00	0.00
ATOM	1897	HG	SER A 122	-0.037	-8.436	-10.176	1.00	0.00
ATOM	1898	N	VAL A 123	3.185	-6.429	-7.914	1.00	0.00
ATOM	1899	CA	VAL A 123	3.310	-5.107	-7.312	1.00	0.00
ATOM	1900	C	VAL A 123	4.056	-4.154	-8.239	1.00	0.00
ATOM	1901	O	VAL A 123	5.076	-4.514	-8.826	1.00	0.00
ATOM	1902	CB	VAL A 123	4.044	-5.172	-5.959	1.00	0.00
ATOM	1903	CG1	VAL A 123	4.031	-3.811	-5.278	1.00	0.00
ATOM	1904	CG2	VAL A 123	3.421	-6.230	-5.061	1.00	0.00
ATOM	1905	H	VAL A 123	3.588	-7.200	-7.462	1.00	0.00
ATOM	1906	HA	VAL A 123	2.315	-4.723	-7.142	1.00	0.00
ATOM	1907	HB	VAL A 123	5.073	-5.445	-6.143	1.00	0.00
ATOM	1908	1HG1	VAL A 123	4.408	-3.064	-5.960	1.00	0.00
ATOM	1909	2HG1	VAL A 123	4.657	-3.843	-4.399	1.00	0.00
ATOM	1910	3HG1	VAL A 123	3.020	-3.561	-4.992	1.00	0.00
ATOM	1911	1HG2	VAL A 123	2.810	-5.752	-4.310	1.00	0.00
ATOM	1912	2HG2	VAL A 123	4.204	-6.798	-4.579	1.00	0.00
ATOM	1913	3HG2	VAL A 123	2.809	-6.893	-5.654	1.00	0.00
ATOM	1914	N	PHE A 124	3.542	-2.935	-8.365	1.00	0.00
ATOM	1915	CA	PHE A 124	4.160	-1.930	-9.221	1.00	0.00
ATOM	1916	C	PHE A 124	3.460	-0.584	-9.071	1.00	0.00
ATOM	1917	O	PHE A 124	2.231	-0.511	-9.041	1.00	0.00

ATOM	1918	CB	PHE A 124	4.120	-2.378	-10.682	1.00	0.00
ATOM	1919	CG	PHE A 124	5.007	-1.568	-11.584	1.00	0.00
ATOM	1920	CD1	PHE A 124	6.134	-2.132	-12.158	1.00	0.00
ATOM	1921	CD2	PHE A 124	4.713	-0.240	-11.857	1.00	0.00
ATOM	1922	CE1	PHE A 124	6.953	-1.389	-12.988	1.00	0.00
ATOM	1923	CE2	PHE A 124	5.527	0.507	-12.686	1.00	0.00
ATOM	1924	CZ	PHE A 124	6.649	-0.068	-13.252	1.00	0.00
ATOM	1925	H	PHE A 124	2.727	-2.707	-7.871	1.00	0.00
ATOM	1926	HA	PHE A 124	5.190	-1.822	-8.915	1.00	0.00
ATOM	1927	1HB	PHE A 124	4.436	-3.408	-10.745	1.00	0.00
ATOM	1928	2HB	PHE A 124	3.107	-2.295	-11.050	1.00	0.00
ATOM	1929	HD1	PHE A 124	6.373	-3.166	-11.953	1.00	0.00
ATOM	1930	HD2	PHE A 124	3.837	0.209	-11.415	1.00	0.00
ATOM	1931	HE1	PHE A 124	7.829	-1.841	-13.429	1.00	0.00
ATOM	1932	HE2	PHE A 124	5.288	1.540	-12.891	1.00	0.00
ATOM	1933	HZ	PHE A 124	7.287	0.515	-13.901	1.00	0.00
ATOM	1934	N	VAL A 125	4.250	0.480	-8.975	1.00	0.00
ATOM	1935	CA	VAL A 125	3.706	1.824	-8.828	1.00	0.00
ATOM	1936	C	VAL A 125	4.304	2.775	-9.860	1.00	0.00
ATOM	1937	O	VAL A 125	5.505	2.744	-10.124	1.00	0.00
ATOM	1938	CB	VAL A 125	3.964	2.381	-7.413	1.00	0.00
ATOM	1939	CG1	VAL A 125	5.458	2.497	-7.145	1.00	0.00
ATOM	1940	CG2	VAL A 125	3.275	3.726	-7.233	1.00	0.00
ATOM	1941	H	VAL A 125	5.221	0.359	-9.004	1.00	0.00
ATOM	1942	HA	VAL A 125	2.637	1.770	-8.980	1.00	0.00
ATOM	1943	HB	VAL A 125	3.547	1.690	-6.696	1.00	0.00
ATOM	1944	1HG1	VAL A 125	5.996	1.848	-7.821	1.00	0.00

ATOM	1945	2HG1	VAL	A	125	5.664	2.204	-6.126	1.00	0.00
ATOM	1946	3HG1	VAL	A	125	5.773	3.518	-7.297	1.00	0.00
ATOM	1947	1HG2	VAL	A	125	2.977	4.111	-8.197	1.00	0.00
ATOM	1948	2HG2	VAL	A	125	3.956	4.421	-6.764	1.00	0.00
ATOM	1949	3HG2	VAL	A	125	2.402	3.603	-6.609	1.00	0.00
ATOM	1950	N	ASP	A	126	3.457	3.619	-10.441	1.00	0.00
ATOM	1951	CA	ASP	A	126	3.902	4.578	-11.444	1.00	0.00
ATOM	1952	C	ASP	A	126	3.054	5.845	-11.401	1.00	0.00
ATOM	1953	O	ASP	A	126	2.143	5.966	-10.582	1.00	0.00
ATOM	1954	CB	ASP	A	126	3.840	3.954	-12.840	1.00	0.00
ATOM	1955	CG	ASP	A	126	5.037	4.327	-13.694	1.00	0.00
ATOM	1956	OD1	ASP	A	126	4.888	5.202	-14.573	1.00	0.00
ATOM	1957	OD2	ASP	A	126	6.121	3.745	-13.482	1.00	0.00
ATOM	1958	H	ASP	A	126	2.510	3.595	-10.189	1.00	0.00
ATOM	1959	HA	ASP	A	126	4.927	4.838	-11.222	1.00	0.00
ATOM	1960	1HB	ASP	A	126	3.812	2.879	-12.746	1.00	0.00
ATOM	1961	2HB	ASP	A	126	2.945	4.292	-13.340	1.00	0.00
ATOM	1962	N	SER	A	127	3.358	6.786	-12.289	1.00	0.00
ATOM	1963	CA	SER	A	127	2.623	8.043	-12.351	1.00	0.00
ATOM	1964	C	SER	A	127	1.237	7.832	-12.950	1.00	0.00
ATOM	1965	O	SER	A	127	1.089	7.682	-14.163	1.00	0.00
ATOM	1966	CB	SER	A	127	3.397	9.070	-13.180	1.00	0.00
ATOM	1967	OG	SER	A	127	3.640	8.590	-14.491	1.00	0.00
ATOM	1968	H	SER	A	127	4.096	6.630	-12.916	1.00	0.00
ATOM	1969	HA	SER	A	127	2.514	8.415	-11.343	1.00	0.00
ATOM	1970	1HB	SER	A	127	2.824	9.983	-13.245	1.00	0.00
ATOM	1971	2HB	SER	A	127	4.345	9.273	-12.703	1.00	0.00

ATOM	1972	HG	SER A 127	2.805	8.404	-14.924	1.00	0.00
ATOM	1973	N	GLY A 128	0.222	7.822	-12.093	1.00	0.00
ATOM	1974	CA	GLY A 128	-1.139	7.628	-12.556	1.00	0.00
ATOM	1975	C	GLY A 128	-1.763	8.909	-13.081	1.00	0.00
ATOM	1976	O	GLY A 128	-1.252	9.999	-12.826	1.00	0.00
ATOM	1977	H	GLY A 128	0.398	7.947	-11.136	1.00	0.00
ATOM	1978	1HA	GLY A 128	-1.136	6.892	-13.346	1.00	0.00
ATOM	1979	2HA	GLY A 128	-1.738	7.258	-11.738	1.00	0.00
ATOM	1980	N	PRO A 129	-2.878	8.806	-13.824	1.00	0.00
ATOM	1981	CA	PRO A 129	-3.566	9.974	-14.384	1.00	0.00
ATOM	1982	C	PRO A 129	-3.988	10.968	-13.308	1.00	0.00
ATOM	1983	O	PRO A 129	-3.467	10.950	-12.193	1.00	0.00
ATOM	1984	CB	PRO A 129	-4.800	9.375	-15.070	1.00	0.00
ATOM	1985	CG	PRO A 129	-4.448	7.948	-15.314	1.00	0.00
ATOM	1986	CD	PRO A 129	-3.553	7.546	-14.177	1.00	0.00
ATOM	1987	HA	PRO A 129	-2.954	10.479	-15.117	1.00	0.00
ATOM	1988	1HB	PRO A 129	-5.656	9.465	-14.418	1.00	0.00
ATOM	1989	2HB	PRO A 129	-4.988	9.897	-15.996	1.00	0.00
ATOM	1990	1HG	PRO A 129	-5.344	7.344	-15.317	1.00	0.00
ATOM	1991	2HG	PRO A 129	-3.926	7.852	-16.254	1.00	0.00
ATOM	1992	1HD	PRO A 129	-4.137	7.175	-13.348	1.00	0.00
ATOM	1993	2HD	PRO A 129	-2.839	6.803	-14.500	1.00	0.00
ATOM	1994	N	SER A 130	-4.936	11.836	-13.649	1.00	0.00
ATOM	1995	CA	SER A 130	-5.429	12.838	-12.711	1.00	0.00
ATOM	1996	C	SER A 130	-6.838	13.286	-13.084	1.00	0.00
ATOM	1997	O	SER A 130	-7.810	12.923	-12.423	1.00	0.00
ATOM	1998	CB	SER A 130	-4.488	14.044	-12.682	1.00	0.00

ATOM	1999	OG	SER A 130	-5.028	15.093	-11.896	1.00	0.00
ATOM	2000	H	SER A 130	-5.313	11.801	-14.553	1.00	0.00
ATOM	2001	HA	SER A 130	-5.455	12.388	-11.730	1.00	0.00
ATOM	2002	1HB	SER A 130	-3.539	13.748	-12.259	1.00	0.00
ATOM	2003	2HB	SER A 130	-4.338	14.405	-13.688	1.00	0.00
ATOM	2004	HG	SER A 130	-5.818	15.437	-12.320	1.00	0.00
ATOM	2005	N	SER A 131	-6.940	14.075	-14.149	1.00	0.00
ATOM	2006	CA	SER A 131	-8.230	14.574	-14.610	1.00	0.00
ATOM	2007	C	SER A 131	-8.845	13.623	-15.633	1.00	0.00
ATOM	2008	O	SER A 131	-9.986	13.187	-15.482	1.00	0.00
ATOM	2009	CB	SER A 131	-8.074	15.966	-15.221	1.00	0.00
ATOM	2010	OG	SER A 131	-9.282	16.398	-15.823	1.00	0.00
ATOM	2011	H	SER A 131	-6.128	14.330	-14.634	1.00	0.00
ATOM	2012	HA	SER A 131	-8.886	14.637	-13.755	1.00	0.00
ATOM	2013	1HB	SER A 131	-7.802	16.668	-14.447	1.00	0.00
ATOM	2014	2HB	SER A 131	-7.299	15.943	-15.974	1.00	0.00
ATOM	2015	HG	SER A 131	-9.166	17.283	-16.177	1.00	0.00
ATOM	2016	N	GLY A 132	-8.080	13.305	-16.673	1.00	0.00
ATOM	2017	CA	GLY A 132	-8.567	12.408	-17.704	1.00	0.00
ATOM	2018	C	GLY A 132	-8.849	13.125	-19.010	1.00	0.00
ATOM	2019	H	GLY A 132	-7.178	13.683	-16.740	1.00	0.00
ATOM	2020	1HA	GLY A 132	-7.824	11.644	-17.879	1.00	0.00
ATOM	2021	2HA	GLY A 132	-9.476	11.939	-17.360	1.00	0.00
TER	2022		GLY A 132					

ENDMDL

Three-Dimensional Structure Coordinate 9

ATOM 1	N	GLY A	1	-11.231	26.894	4.355	1.00	0.00
ATOM 2	CA	GLY A	1	-9.971	27.661	4.156	1.00	0.00
ATOM 3	C	GLY A	1	-9.339	27.398	2.803	1.00	0.00
ATOM 4	O	GLY A	1	-8.523	26.488	2.658	1.00	0.00
ATOM 5	1H	GLY A	1	-11.979	27.270	3.737	1.00	0.00
ATOM 6	2H	GLY A	1	-11.544	26.970	5.343	1.00	0.00
ATOM 7	3H	GLY A	1	-11.079	25.891	4.127	1.00	0.00
ATOM 8	1HA	GLY A	1	-10.186	28.716	4.241	1.00	0.00
ATOM 9	2HA	GLY A	1	-9.269	27.385	4.928	1.00	0.00
ATOM 10	N	SER A	2	-9.716	28.197	1.810	1.00	0.00
ATOM 11	CA	SER A	2	-9.182	28.047	0.463	1.00	0.00
ATOM 12	C	SER A	2	-7.717	28.468	0.408	1.00	0.00
ATOM 13	O	SER A	2	-7.143	28.887	1.413	1.00	0.00
ATOM 14	CB	SER A	2	-9.999	28.877	-0.529	1.00	0.00
ATOM 15	OG	SER A	2	-9.803	28.426	-1.858	1.00	0.00
ATOM 16	H	SER A	2	-10.370	28.906	1.989	1.00	0.00
ATOM 17	HA	SER A	2	-9.255	27.004	0.191	1.00	0.00
ATOM 18	1HB	SER A	2	-11.049	28.793	-0.286	1.00	0.00
ATOM 19	2HB	SER A	2	-9.697	29.911	-0.465	1.00	0.00
ATOM 20	HG	SER A	2	-10.064	29.116	-2.472	1.00	0.00
ATOM 21	N	SER A	3	-7.117	28.352	-0.772	1.00	0.00
ATOM 22	CA	SER A	3	-5.718	28.721	-0.958	1.00	0.00
ATOM 23	C	SER A	3	-5.456	29.154	-2.397	1.00	0.00
ATOM 24	O	SER A	3	-5.245	28.321	-3.278	1.00	0.00
ATOM 25	CB	SER A	3	-4.807	27.548	-0.592	1.00	0.00
ATOM 26	OG	SER A	3	-4.324	27.671	0.734	1.00	0.00
ATOM 27	H	SER A	3	-7.627	28.012	-1.536	1.00	0.00

ATOM 28	HA	SER A	3	-5.504	29.550	-0.300	1.00	0.00
ATOM 29	1HB	SER A	3	-5.362	26.624	-0.675	1.00	0.00
ATOM 30	2HB	SER A	3	-3.964	27.523	-1.268	1.00	0.00
ATOM 31	HG	SER A	3	-5.005	27.392	1.351	1.00	0.00
ATOM 32	N	GLY A	4	-5.472	30.464	-2.628	1.00	0.00
ATOM 33	CA	GLY A	4	-5.235	30.984	-3.961	1.00	0.00
ATOM 34	C	GLY A	4	-3.840	30.678	-4.465	1.00	0.00
ATOM 35	O	GLY A	4	-3.619	30.558	-5.669	1.00	0.00
ATOM 36	H	GLY A	4	-5.646	31.080	-1.887	1.00	0.00
ATOM 37	1HA	GLY A	4	-5.955	30.549	-4.639	1.00	0.00
ATOM 38	2HA	GLY A	4	-5.374	32.055	-3.947	1.00	0.00
ATOM 39	N	SER A	5	-2.894	30.551	-3.539	1.00	0.00
ATOM 40	CA	SER A	5	-1.511	30.255	-3.896	1.00	0.00
ATOM 41	C	SER A	5	-1.408	28.918	-4.622	1.00	0.00
ATOM 42	O	SER A	5	-0.857	28.837	-5.720	1.00	0.00
ATOM 43	CB	SER A	5	-0.632	30.238	-2.643	1.00	0.00
ATOM 44	OG	SER A	5	-1.094	31.171	-1.682	1.00	0.00
ATOM 45	H	SER A	5	-3.131	30.657	-2.594	1.00	0.00
ATOM 46	HA	SER A	5	-1.164	31.038	-4.555	1.00	0.00
ATOM 47	1HB	SER A	5	-0.654	29.251	-2.205	1.00	0.00
ATOM 48	2HB	SER A	5	0.383	30.489	-2.913	1.00	0.00
ATOM 49	HG	SER A	5	-1.237	32.022	-2.105	1.00	0.00
ATOM 50	N	SER A	6	-1.943	27.872	-4.001	1.00	0.00
ATOM 51	CA	SER A	6	-1.912	26.537	-4.589	1.00	0.00
ATOM 52	C	SER A	6	-2.994	26.387	-5.652	1.00	0.00
ATOM 53	O	SER A	6	-2.796	25.714	-6.664	1.00	0.00
ATOM 54	CB	SER A	6	-2.095	25.475	-3.504	1.00	0.00

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ATOM 55	OG	SER A	6	-0.887	25.260	-2.792	1.00	0.00
ATOM 56	H	SER A	6	-2.368	28.000	-3.128	1.00	0.00
ATOM 57	HA	SER A	6	-0.946	26.402	-5.054	1.00	0.00
ATOM 58	1HB	SER A	6	-2.853	25.800	-2.809	1.00	0.00
ATOM 59	2HB	SER A	6	-2.399	24.546	-3.962	1.00	0.00
ATOM 60	HG	SER A	6	-0.593	24.357	-2.928	1.00	0.00
ATOM 61	N	GLY A	7	-4.141	27.017	-5.416	1.00	0.00
ATOM 62	CA	GLY A	7	-5.238	26.940	-6.362	1.00	0.00
ATOM 63	C	GLY A	7	-6.206	25.820	-6.037	1.00	0.00
ATOM 64	O	GLY A	7	-7.419	26.031	-5.992	1.00	0.00
ATOM 65	H	GLY A	7	-4.243	27.538	-4.592	1.00	0.00
ATOM 66	1HA	GLY A	7	-5.773	27.878	-6.353	1.00	0.00
ATOM 67	2HA	GLY A	7	-4.836	26.777	-7.351	1.00	0.00
ATOM 68	N	SER A	8	-5.672	24.624	-5.811	1.00	0.00
ATOM 69	CA	SER A	8	-6.497	23.467	-5.489	1.00	0.00
ATOM 70	C	SER A	8	-5.638	22.305	-5.001	1.00	0.00
ATOM 71	O	SER A	8	-5.730	21.896	-3.843	1.00	0.00
ATOM 72	CB	SER A	8	-7.309	23.038	-6.712	1.00	0.00
ATOM 73	OG	SER A	8	-8.603	22.600	-6.338	1.00	0.00
ATOM 74	H	SER A	8	-4.699	24.519	-5.861	1.00	0.00
ATOM 75	HA	SER A	8	-7.176	23.753	-4.699	1.00	0.00
ATOM 76	1HB	SER A	8	-7.408	23.874	-7.388	1.00	0.00
ATOM 77	2HB	SER A	8	-6.799	22.228	-7.214	1.00	0.00
ATOM 78	HG	SER A	8	-9.218	22.762	-7.057	1.00	0.00
ATOM 79	N	SER A	9	-4.805	21.776	-5.891	1.00	0.00
ATOM 80	CA	SER A	9	-3.930	20.660	-5.551	1.00	0.00
ATOM 81	C	SER A	9	-2.491	20.949	-5.970	1.00	0.00



ATOM 82	O	SER A	9	-2.250	21.596	-6.989	1.00	0.00
ATOM 83	CB	SER A	9	-4.421	19.376	-6.221	1.00	0.00
ATOM 84	OG	SER A	9	-5.815	19.203	-6.032	1.00	0.00
ATOM 85	H	SER A	9	-4.777	22.145	-6.799	1.00	0.00
ATOM 86	HA	SER A	9	-3.959	20.531	-4.479	1.00	0.00
ATOM 87	1HB	SER A	9	-4.217	19.426	-7.281	1.00	0.00
ATOM 88	2HB	SER A	9	-3.904	18.530	-5.795	1.00	0.00
ATOM 89	HG	SER A	9	-6.013	19.207	-5.093	1.00	0.00
ATOM 90	N	SER A	10	-1.541	20.465	-5.178	1.00	0.00
ATOM 91	CA	SER A	10	-0.125	20.672	-5.467	1.00	0.00
ATOM 92	C	SER A	10	0.704	19.476	-5.009	1.00	0.00
ATOM 93	O	SER A	10	1.871	19.619	-4.646	1.00	0.00
ATOM 94	CB	SER A	10	0.374	21.949	-4.786	1.00	0.00
ATOM 95	OG	SER A	10	0.461	23.019	-5.710	1.00	0.00
ATOM 96	H	SER A	10	-1.796	19.958	-4.379	1.00	0.00
ATOM 97	HA	SER A	10	-0.020	20.780	-6.536	1.00	0.00
ATOM 98	1HB	SER A	10	-0.312	22.226	-3.999	1.00	0.00
ATOM 99	2HB	SER A	10	1.352	21.772	-4.365	1.00	0.00
ATOM 100	HG	SER A	10	-0.326	23.032	-6.261	1.00	0.00
ATOM 101	N	SER A	11	0.093	18.295	-5.030	1.00	0.00
ATOM 102	CA	SER A	11	0.776	17.074	-4.618	1.00	0.00
ATOM 103	C	SER A	11	0.901	16.100	-5.785	1.00	0.00
ATOM 104	O	SER A	11	0.380	16.350	-6.873	1.00	0.00
ATOM 105	CB	SER A	11	0.024	16.409	-3.464	1.00	0.00
ATOM 106	OG	SER A	11	-1.378	16.489	-3.656	1.00	0.00
ATOM 107	H	SER A	11	-0.837	18.243	-5.330	1.00	0.00
ATOM 108	HA	SER A	11	1.766	17.343	-4.282	1.00	0.00

ATOM 109	1HB	SER A	11	0.307	15.368	-3.404	1.00	0.00
ATOM 110	2HB	SER A	11	0.276	16.905	-2.538	1.00	0.00
ATOM 111	N	GLN A	12	1.592	14.990	-5.552	1.00	0.00
ATOM 112	CA	GLN A	12	1.784	13.979	-6.586	1.00	0.00
ATOM 113	C	GLN A	12	0.886	12.770	-6.338	1.00	0.00
ATOM 114	O	GLN A	12	0.672	12.367	-5.195	1.00	0.00
ATOM 115	CB	GLN A	12	3.249	13.540	-6.638	1.00	0.00
ATOM 116	CG	GLN A	12	3.728	12.866	-5.363	1.00	0.00
ATOM 117	CD	GLN A	12	4.564	13.785	-4.495	1.00	0.00
ATOM 118	OE1	GLN A	12	4.170	14.136	-3.382	1.00	0.00
ATOM 119	NE2	GLN A	12	5.726	14.182	-5.001	1.00	0.00
ATOM 120	H	GLN A	12	1.983	14.846	-4.665	1.00	0.00
ATOM 121	HA	GLN A	12	1.517	14.421	-7.533	1.00	0.00
ATOM 122	1HB	GLN A	12	3.377	12.847	-7.456	1.00	0.00
ATOM 123	2HB	GLN A	12	3.866	14.409	-6.813	1.00	0.00
ATOM 124	1HG	GLN A	12	2.868	12.544	-4.795	1.00	0.00
ATOM 125	2HG	GLN A	12	4.325	12.005	-5.630	1.00	0.00
ATOM 126	1HE2	GLN A	12	5.974	13.863	-5.893	1.00	0.00
ATOM 127	2HE2	GLN A	12	6.287	14.778	-4.462	1.00	0.00
ATOM 128	N	HIS A	13	0.363	12.200	-7.419	1.00	0.00
ATOM 129	CA	HIS A	13	-0.514	11.038	-7.323	1.00	0.00
ATOM 130	C	HIS A	13	0.060	9.858	-8.100	1.00	0.00
ATOM 131	O	HIS A	13	0.120	9.882	-9.330	1.00	0.00
ATOM 132	CB	HIS A	13	-1.908	11.380	-7.853	1.00	0.00
ATOM 133	CG	HIS A	13	-2.738	12.175	-6.894	1.00	0.00
ATOM 134	ND1	HIS A	13	-4.090	11.967	-6.715	1.00	0.00
ATOM 135	CD2	HIS A	13	-2.402	13.187	-6.057	1.00	0.00

ATOM 136	CE1	HIS	A	13	-4.549	12.815	-5.811	1.00	0.00
ATOM 137	NE2	HIS	A	13	-3.545	13.566	-5.397	1.00	0.00
ATOM 138	H	HIS	A	13	0.570	12.570	-8.302	1.00	0.00
ATOM 139	HA	HIS	A	13	-0.591	10.764	-6.282	1.00	0.00
ATOM 140	1HB	HIS	A	13	-1.809	11.956	-8.761	1.00	0.00
ATOM 141	2HB	HIS	A	13	-2.438	10.463	-8.071	1.00	0.00
ATOM 142	HD1	HIS	A	13	-4.633	11.297	-7.182	1.00	0.00
ATOM 143	HD2	HIS	A	13	-1.418	13.616	-5.934	1.00	0.00
ATOM 144	HE1	HIS	A	13	-5.571	12.882	-5.470	1.00	0.00
ATOM 145	HE2	HIS	A	13	-3.625	14.331	-4.791	1.00	0.00
ATOM 146	N	PHE	A	14	0.484	8.827	-7.377	1.00	0.00
ATOM 147	CA	PHE	A	14	1.054	7.638	-8.001	1.00	0.00
ATOM 148	C	PHE	A	14	0.061	6.480	-7.971	1.00	0.00
ATOM 149	O	PHE	A	14	-0.463	6.127	-6.916	1.00	0.00
ATOM 150	CB	PHE	A	14	2.349	7.236	-7.292	1.00	0.00
ATOM 151	CG	PHE	A	14	3.548	8.021	-7.741	1.00	0.00
ATOM 152	CD1	PHE	A	14	3.962	9.143	-7.040	1.00	0.00
ATOM 153	CD2	PHE	A	14	4.263	7.637	-8.865	1.00	0.00
ATOM 154	CE1	PHE	A	14	5.065	9.867	-7.452	1.00	0.00
ATOM 155	CE2	PHE	A	14	5.366	8.357	-9.281	1.00	0.00
ATOM 156	CZ	PHE	A	14	5.767	9.474	-8.574	1.00	0.00
ATOM 157	H	PHE	A	14	0.411	8.866	-6.400	1.00	0.00
ATOM 158	HA	PHE	A	14	1.277	7.878	-9.030	1.00	0.00
ATOM 159	1HB	PHE	A	14	2.231	7.388	-6.229	1.00	0.00
ATOM 160	2HB	PHE	A	14	2.544	6.190	-7.481	1.00	0.00
ATOM 161	HD1	PHE	A	14	3.413	9.452	-6.162	1.00	0.00
ATOM 162	HD2	PHE	A	14	3.949	6.764	-9.419	1.00	0.00

ATOM 163	HE1	PHE	A	14	5.376	10.739	-6.898	1.00	0.00
ATOM 164	HE2	PHE	A	14	5.913	8.048	-10.159	1.00	0.00
ATOM 165	HZ	PHE	A	14	6.629	10.038	-8.898	1.00	0.00
ATOM 166	N	ASN	A	15	-0.195	5.894	-9.137	1.00	0.00
ATOM 167	CA	ASN	A	15	-1.128	4.777	-9.243	1.00	0.00
ATOM 168	C	ASN	A	15	-0.568	3.531	-8.561	1.00	0.00
ATOM 169	O	ASN	A	15	0.401	2.937	-9.032	1.00	0.00
ATOM 170	CB	ASN	A	15	-1.431	4.477	-10.712	1.00	0.00
ATOM 171	CG	ASN	A	15	-2.521	5.369	-11.271	1.00	0.00
ATOM 172	OD1	ASN	A	15	-2.244	6.358	-11.951	1.00	0.00
ATOM 173	ND2	ASN	A	15	-3.772	5.025	-10.986	1.00	0.00
ATOM 174	H	ASN	A	15	0.253	6.221	-9.944	1.00	0.00
ATOM 175	HA	ASN	A	15	-2.042	5.061	-8.747	1.00	0.00
ATOM 176	1HB	ASN	A	15	-0.534	4.627	-11.297	1.00	0.00
ATOM 177	2HB	ASN	A	15	-1.748	3.448	-10.805	1.00	0.00
ATOM 178	1HD2	ASN	A	15	-3.919	4.225	-10.439	1.00	0.00
ATOM 179	2HD2	ASN	A	15	-4.497	5.584	-11.335	1.00	0.00
ATOM 180	N	LEU	A	16	-1.189	3.140	-7.452	1.00	0.00
ATOM 181	CA	LEU	A	16	-0.755	1.963	-6.706	1.00	0.00
ATOM 182	C	LEU	A	16	-1.493	0.718	-7.187	1.00	0.00
ATOM 183	O	LEU	A	16	-2.706	0.747	-7.397	1.00	0.00
ATOM 184	CB	LEU	A	16	-0.995	2.168	-5.209	1.00	0.00
ATOM 185	CG	LEU	A	16	-0.349	1.123	-4.299	1.00	0.00
ATOM 186	CD1	LEU	A	16	1.166	1.156	-4.439	1.00	0.00
ATOM 187	CD2	LEU	A	16	-0.760	1.351	-2.851	1.00	0.00
ATOM 188	H	LEU	A	16	-1.957	3.654	-7.127	1.00	0.00
ATOM 189	HA	LEU	A	16	0.303	1.831	-6.879	1.00	0.00

ATOM 190	1HB	LEU	A	16	-0.613	3.141	-4.935	1.00	0.00
ATOM 191	2HB	LEU	A	16	-2.060	2.156	-5.032	1.00	0.00
ATOM 192	HG	LEU	A	16	-0.688	0.141	-4.593	1.00	0.00
ATOM 193	1HD1	LEU	A	16	1.609	1.466	-3.502	1.00	0.00
ATOM 194	2HD1	LEU	A	16	1.443	1.856	-5.215	1.00	0.00
ATOM 195	3HD1	LEU	A	16	1.526	0.171	-4.697	1.00	0.00
ATOM 196	1HD2	LEU	A	16	-1.112	2.366	-2.731	1.00	0.00
ATOM 197	2HD2	LEU	A	16	0.089	1.187	-2.203	1.00	0.00
ATOM 198	3HD2	LEU	A	16	-1.549	0.663	-2.587	1.00	0.00
ATOM 199	N	ASN	A	17	-0.756	-0.374	-7.366	1.00	0.00
ATOM 200	CA	ASN	A	17	-1.349	-1.623	-7.827	1.00	0.00
ATOM 201	C	ASN	A	17	-0.532	-2.828	-7.369	1.00	0.00
ATOM 202	O	ASN	A	17	0.679	-2.889	-7.582	1.00	0.00
ATOM 203	CB	ASN	A	17	-1.460	-1.624	-9.353	1.00	0.00
ATOM 204	CG	ASN	A	17	-2.742	-0.979	-9.842	1.00	0.00
ATOM 205	OD1	ASN	A	17	-3.784	-1.630	-9.928	1.00	0.00
ATOM 206	ND2	ASN	A	17	-2.673	0.307	-10.163	1.00	0.00
ATOM 207	H	ASN	A	17	0.207	-0.338	-7.186	1.00	0.00
ATOM 208	HA	ASN	A	17	-2.339	-1.695	-7.406	1.00	0.00
ATOM 209	1HB	ASN	A	17	-0.626	-1.080	-9.769	1.00	0.00
ATOM 210	2HB	ASN	A	17	-1.433	-2.643	-9.710	1.00	0.00
ATOM 211	1HD2	ASN	A	17	-1.810	0.761	-10.069	1.00	0.00
ATOM 212	2HD2	ASN	A	17	-3.486	0.750	-10.483	1.00	0.00
ATOM 213	N	PHE	A	18	-1.208	-3.790	-6.747	1.00	0.00
ATOM 214	CA	PHE	A	18	-0.552	-5.002	-6.266	1.00	0.00
ATOM 215	C	PHE	A	18	-1.583	-6.070	-5.913	1.00	0.00
ATOM 216	O	PHE	A	18	-2.358	-5.914	-4.970	1.00	0.00

ATOM 217	CB	PHE A	18	0.328	-4.695	-5.051	1.00	0.00
ATOM 218	CG	PHE A	18	-0.439	-4.243	-3.842	1.00	0.00
ATOM 219	CD1	PHE A	18	-0.986	-2.972	-3.790	1.00	0.00
ATOM 220	CD2	PHE A	18	-0.609	-5.089	-2.757	1.00	0.00
ATOM 221	CE1	PHE A	18	-1.689	-2.551	-2.678	1.00	0.00
ATOM 222	CE2	PHE A	18	-1.312	-4.674	-1.643	1.00	0.00
ATOM 223	CZ	PHE A	18	-1.853	-3.403	-1.602	1.00	0.00
ATOM 224	H	PHE A	18	-2.174	-3.685	-6.614	1.00	0.00
ATOM 225	HA	PHE A	18	0.072	-5.376	-7.064	1.00	0.00
ATOM 226	1HB	PHE A	18	0.875	-5.585	-4.780	1.00	0.00
ATOM 227	2HB	PHE A	18	1.029	-3.915	-5.313	1.00	0.00
ATOM 228	HD1	PHE A	18	-0.859	-2.305	-4.630	1.00	0.00
ATOM 229	HD2	PHE A	18	-0.185	-6.083	-2.786	1.00	0.00
ATOM 230	HE1	PHE A	18	-2.109	-1.556	-2.648	1.00	0.00
ATOM 231	HE2	PHE A	18	-1.438	-5.341	-0.804	1.00	0.00
ATOM 232	HZ	PHE A	18	-2.402	-3.076	-0.732	1.00	0.00
ATOM 233	N	THR A	19	-1.587	-7.152	-6.684	1.00	0.00
ATOM 234	CA	THR A	19	-2.524	-8.248	-6.464	1.00	0.00
ATOM 235	C	THR A	19	-2.201	-8.999	-5.177	1.00	0.00
ATOM 236	O	THR A	19	-1.045	-9.321	-4.906	1.00	0.00
ATOM 237	CB	THR A	19	-2.496	-9.214	-7.649	1.00	0.00
ATOM 238	OG1	THR A	19	-2.768	-8.532	-8.860	1.00	0.00
ATOM 239	CG2	THR A	19	-3.495	-10.344	-7.525	1.00	0.00
ATOM 240	H	THR A	19	-0.947	-7.214	-7.424	1.00	0.00
ATOM 241	HA	THR A	19	-3.513	-7.826	-6.381	1.00	0.00
ATOM 242	HB	THR A	19	-1.510	-9.652	-7.720	1.00	0.00
ATOM 243	HG1	THR A	19	-2.461	-9.059	-9.601	1.00	0.00

ATOM 244	1HG2	THR	A	19	-3.570	-10.646	-6.491	1.00	0.00
ATOM 245	2HG2	THR	A	19	-3.166	-11.183	-8.122	1.00	0.00
ATOM 246	3HG2	THR	A	19	-4.460	-10.011	-7.873	1.00	0.00
ATOM 247	N	ILE	A	20	-3.235	-9.278	-4.387	1.00	0.00
ATOM 248	CA	ILE	A	20	-3.065	-9.996	-3.130	1.00	0.00
ATOM 249	C	ILE	A	20	-3.567	-11.432	-3.250	1.00	0.00
ATOM 250	O	ILE	A	20	-4.771	-11.683	-3.223	1.00	0.00
ATOM 251	CB	ILE	A	20	-3.810	-9.299	-1.975	1.00	0.00
ATOM 252	CG1	ILE	A	20	-3.494	-7.802	-1.961	1.00	0.00
ATOM 253	CG2	ILE	A	20	-3.437	-9.936	-0.645	1.00	0.00
ATOM 254	CD1	ILE	A	20	-4.516	-6.978	-1.209	1.00	0.00
ATOM 255	H	ILE	A	20	-4.134	-8.997	-4.659	1.00	0.00
ATOM 256	HA	ILE	A	20	-2.011	-10.012	-2.894	1.00	0.00
ATOM 257	HB	ILE	A	20	-4.869	-9.435	-2.126	1.00	0.00
ATOM 258	1HG1	ILE	A	20	-2.534	-7.648	-1.489	1.00	0.00
ATOM 259	2HG1	ILE	A	20	-3.454	-7.438	-2.976	1.00	0.00
ATOM 260	1HG2	ILE	A	20	-3.137	-10.961	-0.807	1.00	0.00
ATOM 261	2HG2	ILE	A	20	-4.289	-9.910	0.018	1.00	0.00
ATOM 262	3HG2	ILE	A	20	-2.618	-9.387	-0.200	1.00	0.00
ATOM 263	1HD1	ILE	A	20	-5.460	-7.012	-1.732	1.00	0.00
ATOM 264	2HD1	ILE	A	20	-4.176	-5.956	-1.144	1.00	0.00
ATOM 265	3HD1	ILE	A	20	-4.641	-7.380	-0.215	1.00	0.00
ATOM 266	N	THR	A	21	-2.633	-12.369	-3.384	1.00	0.00
ATOM 267	CA	THR	A	21	-2.978	-13.780	-3.513	1.00	0.00
ATOM 268	C	THR	A	21	-3.792	-14.260	-2.315	1.00	0.00
ATOM 269	O	THR	A	21	-4.617	-15.165	-2.437	1.00	0.00
ATOM 270	CB	THR	A	21	-1.709	-14.623	-3.652	1.00	0.00

ATOM 271	OG1	THR	A	21	-0.719	-14.195	-2.733	1.00	0.00
ATOM 272	CG2	THR	A	21	-1.103	-14.567	-5.038	1.00	0.00
ATOM 273	H	THR	A	21	-1.690	-12.104	-3.401	1.00	0.00
ATOM 274	HA	THR	A	21	-3.573	-13.895	-4.406	1.00	0.00
ATOM 275	HB	THR	A	21	-1.948	-15.654	-3.438	1.00	0.00
ATOM 276	HG1	THR	A	21	0.063	-14.744	-2.826	1.00	0.00
ATOM 277	1HG2	THR	A	21	-0.083	-14.220	-4.971	1.00	0.00
ATOM 278	2HG2	THR	A	21	-1.675	-13.887	-5.653	1.00	0.00
ATOM 279	3HG2	THR	A	21	-1.120	-15.552	-5.479	1.00	0.00
ATOM 280	N	ASN	A	22	-3.554	-13.650	-1.159	1.00	0.00
ATOM 281	CA	ASN	A	22	-4.267	-14.018	0.059	1.00	0.00
ATOM 282	C	ASN	A	22	-5.722	-13.565	-0.002	1.00	0.00
ATOM 283	O	ASN	A	22	-6.638	-14.348	0.254	1.00	0.00
ATOM 284	CB	ASN	A	22	-3.581	-13.404	1.281	1.00	0.00
ATOM 285	CG	ASN	A	22	-3.776	-14.237	2.533	1.00	0.00
ATOM 286	OD1	ASN	A	22	-3.528	-15.443	2.535	1.00	0.00
ATOM 287	ND2	ASN	A	22	-4.225	-13.596	3.606	1.00	0.00
ATOM 288	H	ASN	A	22	-2.884	-12.936	-1.124	1.00	0.00
ATOM 289	HA	ASN	A	22	-4.240	-15.094	0.146	1.00	0.00
ATOM 290	1HB	ASN	A	22	-2.523	-13.320	1.088	1.00	0.00
ATOM 291	2HB	ASN	A	22	-3.990	-12.420	1.457	1.00	0.00
ATOM 292	1HD2	ASN	A	22	-4.402	-12.635	3.530	1.00	0.00
ATOM 293	2HD2	ASN	A	22	-4.360	-14.110	4.429	1.00	0.00
ATOM 294	N	LEU	A	23	-5.926	-12.297	-0.342	1.00	0.00
ATOM 295	CA	LEU	A	23	-7.269	-11.736	-0.437	1.00	0.00
ATOM 296	C	LEU	A	23	-7.991	-12.255	-1.681	1.00	0.00
ATOM 297	O	LEU	A	23	-7.610	-11.933	-2.806	1.00	0.00



ATOM 298	CB	LEU	A	23	-7.200	-10.208	-0.476	1.00	0.00
ATOM 299	CG	LEU	A	23	-8.410	-9.491	0.123	1.00	0.00
ATOM 300	CD1	LEU	A	23	-9.667	-9.814	-0.669	1.00	0.00
ATOM 301	CD2	LEU	A	23	-8.586	-9.874	1.585	1.00	0.00
ATOM 302	H	LEU	A	23	-5.154	-11.724	-0.534	1.00	0.00
ATOM 303	HA	LEU	A	23	-7.817	-12.040	0.441	1.00	0.00
ATOM 304	1HB	LEU	A	23	-6.318	-9.896	0.063	1.00	0.00
ATOM 305	2HB	LEU	A	23	-7.101	-9.899	-1.506	1.00	0.00
ATOM 306	HG	LEU	A	23	-8.249	-8.423	0.073	1.00	0.00
ATOM 307	1HD1	LEU	A	23	-10.301	-8.939	-0.712	1.00	0.00
ATOM 308	2HD1	LEU	A	23	-10.200	-10.619	-0.186	1.00	0.00
ATOM 309	3HD1	LEU	A	23	-9.395	-10.111	-1.671	1.00	0.00
ATOM 310	1HD2	LEU	A	23	-7.647	-10.234	1.979	1.00	0.00
ATOM 311	2HD2	LEU	A	23	-9.332	-10.651	1.666	1.00	0.00
ATOM 312	3HD2	LEU	A	23	-8.905	-9.009	2.148	1.00	0.00
ATOM 313	N	PRO	A	24	-9.048	-13.068	-1.498	1.00	0.00
ATOM 314	CA	PRO	A	24	-9.815	-13.623	-2.616	1.00	0.00
ATOM 315	C	PRO	A	24	-10.748	-12.594	-3.244	1.00	0.00
ATOM 316	O	PRO	A	24	-10.790	-11.440	-2.820	1.00	0.00
ATOM 317	CB	PRO	A	24	-10.617	-14.747	-1.963	1.00	0.00
ATOM 318	CG	PRO	A	24	-10.813	-14.295	-0.557	1.00	0.00
ATOM 319	CD	PRO	A	24	-9.580	-13.510	-0.192	1.00	0.00
ATOM 320	HA	PRO	A	24	-9.166	-14.034	-3.376	1.00	0.00
ATOM 321	1HB	PRO	A	24	-11.559	-14.866	-2.476	1.00	0.00
ATOM 322	2HB	PRO	A	24	-10.056	-15.668	-2.006	1.00	0.00
ATOM 323	1HG	PRO	A	24	-11.689	-13.667	-0.493	1.00	0.00
ATOM 324	2HG	PRO	A	24	-10.917	-15.151	0.093	1.00	0.00

ATOM 325	1HD	PRO	A	24	-9.842	-12.662	0.423	1.00	0.00
ATOM 326	2HD	PRO	A	24	-8.868	-14.142	0.318	1.00	0.00
ATOM 327	N	TYR	A	25	-11.498	-13.022	-4.254	1.00	0.00
ATOM 328	CA	TYR	A	25	-12.432	-12.136	-4.939	1.00	0.00
ATOM 329	C	TYR	A	25	-13.757	-12.844	-5.205	1.00	0.00
ATOM 330	O	TYR	A	25	-13.815	-13.811	-5.964	1.00	0.00
ATOM 331	CB	TYR	A	25	-11.831	-11.644	-6.256	1.00	0.00
ATOM 332	CG	TYR	A	25	-12.382	-10.312	-6.712	1.00	0.00
ATOM 333	CD1	TYR	A	25	-11.545	-9.219	-6.898	1.00	0.00
ATOM 334	CD2	TYR	A	25	-13.741	-10.147	-6.955	1.00	0.00
ATOM 335	CE1	TYR	A	25	-12.046	-8.000	-7.313	1.00	0.00
ATOM 336	CE2	TYR	A	25	-14.248	-8.932	-7.372	1.00	0.00
ATOM 337	CZ	TYR	A	25	-13.397	-7.862	-7.549	1.00	0.00
ATOM 338	OH	TYR	A	25	-13.899	-6.649	-7.963	1.00	0.00
ATOM 339	H	TYR	A	25	-11.421	-13.954	-4.546	1.00	0.00
ATOM 340	HA	TYR	A	25	-12.615	-11.288	-4.297	1.00	0.00
ATOM 341	1HB	TYR	A	25	-10.763	-11.537	-6.138	1.00	0.00
ATOM 342	2HB	TYR	A	25	-12.033	-12.370	-7.030	1.00	0.00
ATOM 343	HD1	TYR	A	25	-10.488	-9.331	-6.713	1.00	0.00
ATOM 344	HD2	TYR	A	25	-14.405	-10.988	-6.815	1.00	0.00
ATOM 345	HE1	TYR	A	25	-11.380	-7.162	-7.452	1.00	0.00
ATOM 346	HE2	TYR	A	25	-15.307	-8.824	-7.557	1.00	0.00
ATOM 347	HH	TYR	A	25	-13.697	-5.977	-7.308	1.00	0.00
ATOM 348	N	SER	A	26	-14.818	-12.354	-4.574	1.00	0.00
ATOM 349	CA	SER	A	26	-16.144	-12.938	-4.742	1.00	0.00
ATOM 350	C	SER	A	26	-17.131	-11.901	-5.267	1.00	0.00
ATOM 351	O	SER	A	26	-16.757	-10.767	-5.566	1.00	0.00

ATOM 352	CB	SER A	26	-16.643	-13.508	-3.413	1.00	0.00
ATOM 353	OG	SER A	26	-17.664	-14.470	-3.620	1.00	0.00
ATOM 354	H	SER A	26	-14.709	-11.581	-3.982	1.00	0.00
ATOM 355	HA	SER A	26	-16.066	-13.740	-5.461	1.00	0.00
ATOM 356	1HB	SER A	26	-15.822	-13.980	-2.895	1.00	0.00
ATOM 357	2HB	SER A	26	-17.039	-12.708	-2.805	1.00	0.00
ATOM 358	HG	SER A	26	-17.285	-15.259	-4.015	1.00	0.00
ATOM 359	N	GLN A	27	-18.395	-12.298	-5.377	1.00	0.00
ATOM 360	CA	GLN A	27	-19.437	-11.402	-5.866	1.00	0.00
ATOM 361	C	GLN A	27	-19.573	-10.181	-4.963	1.00	0.00
ATOM 362	O	GLN A	27	-19.906	-9.089	-5.425	1.00	0.00
ATOM 363	CB	GLN A	27	-20.774	-12.140	-5.952	1.00	0.00
ATOM 364	CG	GLN A	27	-21.108	-12.940	-4.703	1.00	0.00
ATOM 365	CD	GLN A	27	-20.800	-14.417	-4.858	1.00	0.00
ATOM 366	OE1	GLN A	27	-19.705	-14.794	-5.275	1.00	0.00
ATOM 367	NE2	GLN A	27	-21.768	-15.262	-4.522	1.00	0.00
ATOM 368	H	GLN A	27	-18.632	-13.213	-5.123	1.00	0.00
ATOM 369	HA	GLN A	27	-19.154	-11.073	-6.855	1.00	0.00
ATOM 370	1HB	GLN A	27	-21.561	-11.418	-6.112	1.00	0.00
ATOM 371	2HB	GLN A	27	-20.745	-12.819	-6.791	1.00	0.00
ATOM 372	1HG	GLN A	27	-20.530	-12.553	-3.878	1.00	0.00
ATOM 373	2HG	GLN A	27	-22.161	-12.828	-4.490	1.00	0.00
ATOM 374	1HE2	GLN A	27	-22.614	-14.891	-4.197	1.00	0.00
ATOM 375	2HE2	GLN A	27	-21.595	-16.223	-4.612	1.00	0.00
ATOM 376	N	ASP A	28	-19.313	-10.373	-3.674	1.00	0.00
ATOM 377	CA	ASP A	28	-19.406	-9.287	-2.705	1.00	0.00
ATOM 378	C	ASP A	28	-18.418	-8.173	-3.039	1.00	0.00

ATOM 379	O	ASP	A	28	-18.773	-6.995	-3.044	1.00	0.00
ATOM 380	CB	ASP	A	28	-19.143	-9.812	-1.293	1.00	0.00
ATOM 381	CG	ASP	A	28	-19.970	-11.040	-0.969	1.00	0.00
ATOM 382	OD1	ASP	A	28	-19.812	-12.063	-1.668	1.00	0.00
ATOM 383	OD2	ASP	A	28	-20.775	-10.980	-0.017	1.00	0.00
ATOM 384	H	ASP	A	28	-19.051	-11.265	-3.367	1.00	0.00
ATOM 385	HA	ASP	A	28	-20.408	-8.887	-2.750	1.00	0.00
ATOM 386	1HB	ASP	A	28	-18.099	-10.070	-1.201	1.00	0.00
ATOM 387	2HB	ASP	A	28	-19.383	-9.038	-0.578	1.00	0.00
ATOM 388	N	ILE	A	29	-17.175	-8.554	-3.317	1.00	0.00
ATOM 389	CA	ILE	A	29	-16.137	-7.587	-3.651	1.00	0.00
ATOM 390	C	ILE	A	29	-16.487	-6.806	-4.917	1.00	0.00
ATOM 391	O	ILE	A	29	-15.898	-5.760	-5.192	1.00	0.00
ATOM 392	CB	ILE	A	29	-14.770	-8.275	-3.844	1.00	0.00
ATOM 393	CG1	ILE	A	29	-14.451	-9.174	-2.647	1.00	0.00
ATOM 394	CG2	ILE	A	29	-13.675	-7.236	-4.038	1.00	0.00
ATOM 395	CD1	ILE	A	29	-14.504	-8.453	-1.317	1.00	0.00
ATOM 396	H	ILE	A	29	-16.953	-9.508	-3.297	1.00	0.00
ATOM 397	HA	ILE	A	29	-16.051	-6.894	-2.827	1.00	0.00
ATOM 398	HB	ILE	A	29	-14.819	-8.879	-4.737	1.00	0.00
ATOM 399	1HG1	ILE	A	29	-15.164	-9.983	-2.613	1.00	0.00
ATOM 400	2HG1	ILE	A	29	-13.457	-9.580	-2.766	1.00	0.00
ATOM 401	1HG2	ILE	A	29	-12.710	-7.698	-3.895	1.00	0.00
ATOM 402	2HG2	ILE	A	29	-13.803	-6.440	-3.318	1.00	0.00
ATOM 403	3HG2	ILE	A	29	-13.736	-6.830	-5.037	1.00	0.00
ATOM 404	1HD1	ILE	A	29	-13.589	-8.636	-0.772	1.00	0.00
ATOM 405	2HD1	ILE	A	29	-15.343	-8.816	-0.743	1.00	0.00

ATOM 406	3HD1	ILE	A	29	-14.616	-7.392	-1.486	1.00	0.00
ATOM 407	N	ALA	A	30	-17.444	-7.315	-5.688	1.00	0.00
ATOM 408	CA	ALA	A	30	-17.864	-6.658	-6.920	1.00	0.00
ATOM 409	C	ALA	A	30	-18.941	-5.610	-6.651	1.00	0.00
ATOM 410	O	ALA	A	30	-19.105	-4.666	-7.424	1.00	0.00
ATOM 411	CB	ALA	A	30	-18.366	-7.688	-7.920	1.00	0.00
ATOM 412	H	ALA	A	30	-17.878	-8.152	-5.424	1.00	0.00
ATOM 413	HA	ALA	A	30	-16.999	-6.170	-7.346	1.00	0.00
ATOM 414	1HB	ALA	A	30	-18.068	-7.398	-8.917	1.00	0.00
ATOM 415	2HB	ALA	A	30	-19.443	-7.743	-7.869	1.00	0.00
ATOM 416	3HB	ALA	A	30	-17.944	-8.654	-7.685	1.00	0.00
ATOM 417	N	GLN	A	31	-19.675	-5.782	-5.555	1.00	0.00
ATOM 418	CA	GLN	A	31	-20.738	-4.849	-5.192	1.00	0.00
ATOM 419	C	GLN	A	31	-20.397	-4.102	-3.901	1.00	0.00
ATOM 420	O	GLN	A	31	-20.288	-4.711	-2.837	1.00	0.00
ATOM 421	CB	GLN	A	31	-22.062	-5.594	-5.027	1.00	0.00
ATOM 422	CG	GLN	A	31	-22.884	-5.663	-6.305	1.00	0.00
ATOM 423	CD	GLN	A	31	-23.667	-4.392	-6.562	1.00	0.00
ATOM 424	OE1	GLN	A	31	-23.131	-3.287	-6.462	1.00	0.00
ATOM 425	NE2	GLN	A	31	-24.945	-4.539	-6.895	1.00	0.00
ATOM 426	H	GLN	A	31	-19.501	-6.554	-4.977	1.00	0.00
ATOM 427	HA	GLN	A	31	-20.837	-4.135	-5.995	1.00	0.00
ATOM 428	1HB	GLN	A	31	-21.856	-6.604	-4.702	1.00	0.00
ATOM 429	2HB	GLN	A	31	-22.652	-5.096	-4.272	1.00	0.00
ATOM 430	1HG	GLN	A	31	-22.218	-5.832	-7.137	1.00	0.00
ATOM 431	2HG	GLN	A	31	-23.578	-6.488	-6.227	1.00	0.00
ATOM 432	1HE2	GLN	A	31	-25.305	-5.449	-6.955	1.00	0.00

ATOM 433	2HE2	GLN	A	31	-25.475	-3.734	-7.068	1.00	0.00
ATOM 434	N	PRO	A	32	-20.223	-2.768	-3.974	1.00	0.00
ATOM 435	CA	PRO	A	32	-19.894	-1.950	-2.801	1.00	0.00
ATOM 436	C	PRO	A	32	-20.965	-2.022	-1.715	1.00	0.00
ATOM 437	O	PRO	A	32	-20.710	-1.695	-0.556	1.00	0.00
ATOM 438	CB	PRO	A	32	-19.805	-0.524	-3.361	1.00	0.00
ATOM 439	CG	PRO	A	32	-19.608	-0.693	-4.828	1.00	0.00
ATOM 440	CD	PRO	A	32	-20.331	-1.954	-5.197	1.00	0.00
ATOM 441	HA	PRO	A	32	-18.942	-2.231	-2.380	1.00	0.00
ATOM 442	1HB	PRO	A	32	-20.721	0.008	-3.145	1.00	0.00
ATOM 443	2HB	PRO	A	32	-18.970	-0.009	-2.909	1.00	0.00
ATOM 444	1HG	PRO	A	32	-20.031	0.150	-5.356	1.00	0.00
ATOM 445	2HG	PRO	A	32	-18.555	-0.786	-5.049	1.00	0.00
ATOM 446	1HD	PRO	A	32	-21.365	-1.743	-5.433	1.00	0.00
ATOM 447	2HD	PRO	A	32	-19.844	-2.440	-6.029	1.00	0.00
ATOM 448	N	SER	A	33	-22.167	-2.447	-2.097	1.00	0.00
ATOM 449	CA	SER	A	33	-23.274	-2.554	-1.154	1.00	0.00
ATOM 450	C	SER	A	33	-23.020	-3.649	-0.120	1.00	0.00
ATOM 451	O	SER	A	33	-23.458	-3.545	1.025	1.00	0.00
ATOM 452	CB	SER	A	33	-24.579	-2.836	-1.900	1.00	0.00
ATOM 453	OG	SER	A	33	-25.690	-2.293	-1.208	1.00	0.00
ATOM 454	H	SER	A	33	-22.314	-2.689	-3.035	1.00	0.00
ATOM 455	HA	SER	A	33	-23.363	-1.608	-0.641	1.00	0.00
ATOM 456	1HB	SER	A	33	-24.533	-2.393	-2.883	1.00	0.00
ATOM 457	2HB	SER	A	33	-24.716	-3.904	-1.992	1.00	0.00
ATOM 458	HG	SER	A	33	-25.606	-2.479	-0.269	1.00	0.00
ATOM 459	N	THR	A	34	-22.314	-4.698	-0.532	1.00	0.00

ATOM 460	CA	THR A	34	-22.010	-5.810	0.363	1.00	0.00
ATOM 461	C	THR A	34	-21.016	-5.389	1.442	1.00	0.00
ATOM 462	O	THR A	34	-20.398	-4.328	1.352	1.00	0.00
ATOM 463	CB	THR A	34	-21.452	-6.992	-0.428	1.00	0.00
ATOM 464	OG1	THR A	34	-20.320	-6.598	-1.182	1.00	0.00
ATOM 465	CG2	THR A	34	-22.454	-7.598	-1.386	1.00	0.00
ATOM 466	H	THR A	34	-21.994	-4.726	-1.457	1.00	0.00
ATOM 467	HA	THR A	34	-22.931	-6.111	0.839	1.00	0.00
ATOM 468	HB	THR A	34	-21.147	-7.763	0.264	1.00	0.00
ATOM 469	HG1	THR A	34	-19.698	-6.142	-0.611	1.00	0.00
ATOM 470	1HG2	THR A	34	-22.511	-6.993	-2.280	1.00	0.00
ATOM 471	2HG2	THR A	34	-23.425	-7.637	-0.915	1.00	0.00
ATOM 472	3HG2	THR A	34	-22.142	-8.598	-1.649	1.00	0.00
ATOM 473	N	THR A	35	-20.868	-6.230	2.461	1.00	0.00
ATOM 474	CA	THR A	35	-19.951	-5.949	3.559	1.00	0.00
ATOM 475	C	THR A	35	-18.525	-6.357	3.201	1.00	0.00
ATOM 476	O	THR A	35	-17.562	-5.719	3.627	1.00	0.00
ATOM 477	CB	THR A	35	-20.401	-6.682	4.824	1.00	0.00
ATOM 478	OG1	THR A	35	-21.808	-6.837	4.841	1.00	0.00
ATOM 479	CG2	THR A	35	-20.001	-5.973	6.101	1.00	0.00
ATOM 480	H	THR A	35	-21.390	-7.060	2.474	1.00	0.00
ATOM 481	HA	THR A	35	-19.972	-4.886	3.744	1.00	0.00
ATOM 482	HB	THR A	35	-19.951	-7.664	4.837	1.00	0.00
ATOM 483	HG1	THR A	35	-22.226	-5.997	4.636	1.00	0.00
ATOM 484	1HG2	THR A	35	-19.367	-6.619	6.688	1.00	0.00
ATOM 485	2HG2	THR A	35	-20.888	-5.727	6.667	1.00	0.00
ATOM 486	3HG2	THR A	35	-19.467	-5.067	5.857	1.00	0.00

ATOM 487	N	LYS A	36	-18.397	-7.425	2.421	1.00	0.00
ATOM 488	CA	LYS A	36	-17.086	-7.921	2.010	1.00	0.00
ATOM 489	C	LYS A	36	-16.285	-6.830	1.305	1.00	0.00
ATOM 490	O	LYS A	36	-15.055	-6.811	1.370	1.00	0.00
ATOM 491	CB	LYS A	36	-17.241	-9.131	1.088	1.00	0.00
ATOM 492	CG	LYS A	36	-16.134	-10.161	1.247	1.00	0.00
ATOM 493	CD	LYS A	36	-16.110	-10.746	2.651	1.00	0.00
ATOM 494	CE	LYS A	36	-14.906	-10.255	3.440	1.00	0.00
ATOM 495	NZ	LYS A	36	-14.597	-11.144	4.594	1.00	0.00
ATOM 496	H	LYS A	36	-19.202	-7.894	2.116	1.00	0.00
ATOM 497	HA	LYS A	36	-16.555	-8.223	2.898	1.00	0.00
ATOM 498	1HB	LYS A	36	-18.184	-9.612	1.299	1.00	0.00
ATOM 499	2HB	LYS A	36	-17.242	-8.791	0.064	1.00	0.00
ATOM 500	1HG	LYS A	36	-16.294	-10.960	0.539	1.00	0.00
ATOM 501	2HG	LYS A	36	-15.184	-9.686	1.047	1.00	0.00
ATOM 502	1HD	LYS A	36	-17.011	-10.452	3.169	1.00	0.00
ATOM 503	2HD	LYS A	36	-16.069	-11.822	2.581	1.00	0.00
ATOM 504	1HE	LYS A	36	-14.050	-10.223	2.783	1.00	0.00
ATOM 505	2HE	LYS A	36	-15.114	-9.260	3.808	1.00	0.00
ATOM 506	1HZ	LYS A	36	-14.028	-10.631	5.298	1.00	0.00
ATOM 507	2HZ	LYS A	36	-14.063	-11.975	4.273	1.00	0.00
ATOM 508	3HZ	LYS A	36	-15.479	-11.465	5.045	1.00	0.00
ATOM 509	N	TYR A	37	-16.986	-5.924	0.634	1.00	0.00
ATOM 510	CA	TYR A	37	-16.336	-4.831	-0.080	1.00	0.00
ATOM 511	C	TYR A	37	-15.865	-3.751	0.889	1.00	0.00
ATOM 512	O	TYR A	37	-14.685	-3.404	0.921	1.00	0.00
ATOM 513	CB	TYR A	37	-17.291	-4.228	-1.112	1.00	0.00



ATOM 514	CG	TYR A	37	-16.694	-3.080	-1.895	1.00	0.00
ATOM 515	CD1	TYR A	37	-16.160	-3.282	-3.161	1.00	0.00
ATOM 516	CD2	TYR A	37	-16.665	-1.795	-1.366	1.00	0.00
ATOM 517	CE1	TYR A	37	-15.614	-2.235	-3.880	1.00	0.00
ATOM 518	CE2	TYR A	37	-16.121	-0.744	-2.080	1.00	0.00
ATOM 519	CZ	TYR A	37	-15.597	-0.969	-3.335	1.00	0.00
ATOM 520	OH	TYR A	37	-15.056	0.076	-4.048	1.00	0.00
ATOM 521	H	TYR A	37	-17.965	-5.989	0.618	1.00	0.00
ATOM 522	HA	TYR A	37	-15.476	-5.237	-0.592	1.00	0.00
ATOM 523	1HB	TYR A	37	-17.579	-4.994	-1.816	1.00	0.00
ATOM 524	2HB	TYR A	37	-18.173	-3.863	-0.606	1.00	0.00
ATOM 525	HD1	TYR A	37	-16.175	-4.274	-3.584	1.00	0.00
ATOM 526	HD2	TYR A	37	-17.075	-1.623	-0.383	1.00	0.00
ATOM 527	HE1	TYR A	37	-15.205	-2.412	-4.863	1.00	0.00
ATOM 528	HE2	TYR A	37	-16.108	0.247	-1.653	1.00	0.00
ATOM 529	HH	TYR A	37	-15.730	0.465	-4.609	1.00	0.00
ATOM 530	N	GLN A	38	-16.797	-3.223	1.677	1.00	0.00
ATOM 531	CA	GLN A	38	-16.477	-2.182	2.646	1.00	0.00
ATOM 532	C	GLN A	38	-15.448	-2.677	3.658	1.00	0.00
ATOM 533	O	GLN A	38	-14.641	-1.899	4.168	1.00	0.00
ATOM 534	CB	GLN A	38	-17.744	-1.724	3.370	1.00	0.00
ATOM 535	CG	GLN A	38	-18.624	-0.808	2.535	1.00	0.00
ATOM 536	CD	GLN A	38	-20.101	-1.100	2.711	1.00	0.00
ATOM 537	OE1	GLN A	38	-20.494	-1.871	3.587	1.00	0.00
ATOM 538	NE2	GLN A	38	-20.929	-0.482	1.877	1.00	0.00
ATOM 539	H	GLN A	38	-17.720	-3.541	1.605	1.00	0.00
ATOM 540	HA	GLN A	38	-16.059	-1.345	2.106	1.00	0.00

ATOM 541	1HB	GLN A	38	-18.323	-2.594	3.642	1.00	0.00
ATOM 542	2HB	GLN A	38	-17.461	-1.195	4.268	1.00	0.00
ATOM 543	1HG	GLN A	38	-18.438	0.215	2.828	1.00	0.00
ATOM 544	2HG	GLN A	38	-18.368	-0.936	1.493	1.00	0.00
ATOM 545	1HE2	GLN A	38	-20.547	0.118	1.204	1.00	0.00
ATOM 546	2HE2	GLN A	38	-21.890	-0.652	1.968	1.00	0.00
ATOM 547	N	GLN A	39	-15.484	-3.973	3.948	1.00	0.00
ATOM 548	CA	GLN A	39	-14.554	-4.570	4.899	1.00	0.00
ATOM 549	C	GLN A	39	-13.151	-4.658	4.308	1.00	0.00
ATOM 550	O	GLN A	39	-12.204	-4.077	4.838	1.00	0.00
ATOM 551	CB	GLN A	39	-15.036	-5.963	5.310	1.00	0.00
ATOM 552	CG	GLN A	39	-15.909	-5.963	6.554	1.00	0.00
ATOM 553	CD	GLN A	39	-15.156	-6.400	7.794	1.00	0.00
ATOM 554	OE1	GLN A	39	-13.957	-6.152	7.926	1.00	0.00
ATOM 555	NE2	GLN A	39	-15.857	-7.054	8.713	1.00	0.00
ATOM 556	H	GLN A	39	-16.151	-4.543	3.509	1.00	0.00
ATOM 557	HA	GLN A	39	-14.524	-3.937	5.774	1.00	0.00
ATOM 558	1HB	GLN A	39	-15.605	-6.388	4.496	1.00	0.00
ATOM 559	2HB	GLN A	39	-14.175	-6.588	5.501	1.00	0.00
ATOM 560	1HG	GLN A	39	-16.286	-4.963	6.713	1.00	0.00
ATOM 561	2HG	GLN A	39	-16.738	-6.638	6.396	1.00	0.00
ATOM 562	1HE2	GLN A	39	-16.808	-7.215	8.542	1.00	0.00
ATOM 563	2HE2	GLN A	39	-15.394	-7.348	9.526	1.00	0.00
ATOM 564	N	THR A	40	-13.024	-5.392	3.207	1.00	0.00
ATOM 565	CA	THR A	40	-11.736	-5.558	2.543	1.00	0.00
ATOM 566	C	THR A	40	-11.167	-4.211	2.106	1.00	0.00
ATOM 567	O	THR A	40	-9.951	-4.028	2.048	1.00	0.00

ATOM 568	CB	THR	A	40	-11.879	-6.481	1.332	1.00	0.00
ATOM 569	OG1	THR	A	40	-12.636	-7.630	1.665	1.00	0.00
ATOM 570	CG2	THR	A	40	-10.551	-6.952	0.776	1.00	0.00
ATOM 571	H	THR	A	40	-13.815	-5.832	2.832	1.00	0.00
ATOM 572	HA	THR	A	40	-11.055	-6.009	3.249	1.00	0.00
ATOM 573	HB	THR	A	40	-12.396	-5.949	0.546	1.00	0.00
ATOM 574	HG1	THR	A	40	-12.132	-8.184	2.266	1.00	0.00
ATOM 575	1HG2	THR	A	40	-10.605	-6.987	-0.302	1.00	0.00
ATOM 576	2HG2	THR	A	40	-10.331	-7.937	1.159	1.00	0.00
ATOM 577	3HG2	THR	A	40	-9.773	-6.266	1.076	1.00	0.00
ATOM 578	N	LYS	A	41	-12.054	-3.272	1.795	1.00	0.00
ATOM 579	CA	LYS	A	41	-11.640	-1.943	1.362	1.00	0.00
ATOM 580	C	LYS	A	41	-11.021	-1.159	2.514	1.00	0.00
ATOM 581	O	LYS	A	41	-10.023	-0.460	2.338	1.00	0.00
ATOM 582	CB	LYS	A	41	-12.833	-1.174	0.792	1.00	0.00
ATOM 583	CG	LYS	A	41	-12.447	0.113	0.084	1.00	0.00
ATOM 584	CD	LYS	A	41	-13.581	0.636	-0.782	1.00	0.00
ATOM 585	CE	LYS	A	41	-13.236	1.980	-1.401	1.00	0.00
ATOM 586	NZ	LYS	A	41	-14.455	2.730	-1.814	1.00	0.00
ATOM 587	H	LYS	A	41	-13.010	-3.477	1.859	1.00	0.00
ATOM 588	HA	LYS	A	41	-10.899	-2.064	0.586	1.00	0.00
ATOM 589	1HB	LYS	A	41	-13.350	-1.808	0.085	1.00	0.00
ATOM 590	2HB	LYS	A	41	-13.507	-0.927	1.600	1.00	0.00
ATOM 591	1HG	LYS	A	41	-12.198	0.860	0.824	1.00	0.00
ATOM 592	2HG	LYS	A	41	-11.586	-0.076	-0.541	1.00	0.00
ATOM 593	1HD	LYS	A	41	-13.773	-0.074	-1.572	1.00	0.00
ATOM 594	2HD	LYS	A	41	-14.465	0.745	-0.171	1.00	0.00

ATOM 595	1HE	LYS	A	41	-12.693	2.568	-0.675	1.00	0.00
ATOM 596	2HE	LYS	A	41	-12.614	1.815	-2.269	1.00	0.00
ATOM 597	1HZ	LYS	A	41	-14.807	3.304	-1.022	1.00	0.00
ATOM 598	2HZ	LYS	A	41	-15.201	2.067	-2.105	1.00	0.00
ATOM 599	3HZ	LYS	A	41	-14.234	3.358	-2.613	1.00	0.00
ATOM 600	N	ARG	A	42	-11.621	-1.277	3.695	1.00	0.00
ATOM 601	CA	ARG	A	42	-11.129	-0.578	4.876	1.00	0.00
ATOM 602	C	ARG	A	42	-9.963	-1.328	5.512	1.00	0.00
ATOM 603	O	ARG	A	42	-9.083	-0.723	6.125	1.00	0.00
ATOM 604	CB	ARG	A	42	-12.256	-0.403	5.896	1.00	0.00
ATOM 605	CG	ARG	A	42	-12.152	0.881	6.705	1.00	0.00
ATOM 606	CD	ARG	A	42	-13.489	1.600	6.785	1.00	0.00
ATOM 607	NE	ARG	A	42	-14.305	1.117	7.897	1.00	0.00
ATOM 608	CZ	ARG	A	42	-15.386	1.747	8.353	1.00	0.00
ATOM 609	NH1	ARG	A	42	-15.786	2.883	7.796	1.00	0.00
ATOM 610	NH2	ARG	A	42	-16.071	1.238	9.369	1.00	0.00
ATOM 611	H	ARG	A	42	-12.414	-1.848	3.773	1.00	0.00
ATOM 612	HA	ARG	A	42	-10.786	0.397	4.563	1.00	0.00
ATOM 613	1HB	ARG	A	42	-13.201	-0.400	5.373	1.00	0.00
ATOM 614	2HB	ARG	A	42	-12.236	-1.237	6.582	1.00	0.00
ATOM 615	1HG	ARG	A	42	-11.823	0.640	7.704	1.00	0.00
ATOM 616	2HG	ARG	A	42	-11.431	1.533	6.234	1.00	0.00
ATOM 617	1HD	ARG	A	42	-13.308	2.657	6.918	1.00	0.00
ATOM 618	2HD	ARG	A	42	-14.025	1.441	5.862	1.00	0.00
ATOM 619	HE	ARG	A	42	-14.033	0.280	8.327	1.00	0.00
ATOM 620	1HH1	ARG	A	42	-15.275	3.271	7.029	1.00	0.00
ATOM 621	2HH1	ARG	A	42	-16.599	3.351	8.142	1.00	0.00

ATOM 622	1HH2	ARG	A	42	-15.774	0.382	9.792	1.00	0.00
ATOM 623	2HH2	ARG	A	42	-16.883	1.711	9.711	1.00	0.00
ATOM 624	N	SER	A	43	-9.963	-2.649	5.366	1.00	0.00
ATOM 625	CA	SER	A	43	-8.906	-3.481	5.928	1.00	0.00
ATOM 626	C	SER	A	43	-7.555	-3.144	5.303	1.00	0.00
ATOM 627	O	SER	A	43	-6.572	-2.922	6.008	1.00	0.00
ATOM 628	CB	SER	A	43	-9.224	-4.961	5.715	1.00	0.00
ATOM 629	OG	SER	A	43	-8.799	-5.739	6.819	1.00	0.00
ATOM 630	H	SER	A	43	-10.692	-3.075	4.869	1.00	0.00
ATOM 631	HA	SER	A	43	-8.857	-3.282	6.989	1.00	0.00
ATOM 632	1HB	SER	A	43	-10.290	-5.084	5.594	1.00	0.00
ATOM 633	2HB	SER	A	43	-8.719	-5.311	4.826	1.00	0.00
ATOM 634	HG	SER	A	43	-8.881	-6.672	6.605	1.00	0.00
ATOM 635	N	ILE	A	44	-7.515	-3.112	3.976	1.00	0.00
ATOM 636	CA	ILE	A	44	-6.286	-2.804	3.255	1.00	0.00
ATOM 637	C	ILE	A	44	-5.870	-1.352	3.470	1.00	0.00
ATOM 638	O	ILE	A	44	-4.694	-1.057	3.683	1.00	0.00
ATOM 639	CB	ILE	A	44	-6.439	-3.068	1.744	1.00	0.00
ATOM 640	CG1	ILE	A	44	-6.953	-4.488	1.501	1.00	0.00
ATOM 641	CG2	ILE	A	44	-5.114	-2.850	1.028	1.00	0.00
ATOM 642	CD1	ILE	A	44	-7.383	-4.740	0.072	1.00	0.00
ATOM 643	H	ILE	A	44	-8.333	-3.300	3.468	1.00	0.00
ATOM 644	HA	ILE	A	44	-5.507	-3.450	3.635	1.00	0.00
ATOM 645	HB	ILE	A	44	-7.154	-2.362	1.349	1.00	0.00
ATOM 646	1HG1	ILE	A	44	-6.170	-5.193	1.740	1.00	0.00
ATOM 647	2HG1	ILE	A	44	-7.803	-4.671	2.141	1.00	0.00
ATOM 648	1HG2	ILE	A	44	-5.074	-1.840	0.646	1.00	0.00

ATOM 649	2HG2	ILE	A	44	-5.028	-3.548	0.209	1.00	0.00
ATOM 650	3HG2	ILE	A	44	-4.301	-3.006	1.721	1.00	0.00
ATOM 651	1HD1	ILE	A	44	-7.013	-5.701	-0.252	1.00	0.00
ATOM 652	2HD1	ILE	A	44	-6.981	-3.966	-0.565	1.00	0.00
ATOM 653	3HD1	ILE	A	44	-8.461	-4.730	0.014	1.00	0.00
ATOM 654	N	GLU	A	45	-6.843	-0.448	3.414	1.00	0.00
ATOM 655	CA	GLU	A	45	-6.576	0.974	3.601	1.00	0.00
ATOM 656	C	GLU	A	45	-5.946	1.235	4.967	1.00	0.00
ATOM 657	O	GLU	A	45	-5.156	2.165	5.131	1.00	0.00
ATOM 658	CB	GLU	A	45	-7.869	1.781	3.458	1.00	0.00
ATOM 659	CG	GLU	A	45	-7.768	2.920	2.456	1.00	0.00
ATOM 660	CD	GLU	A	45	-7.289	4.212	3.088	1.00	0.00
ATOM 661	OE1	GLU	A	45	-6.059	4.402	3.191	1.00	0.00
ATOM 662	OE2	GLU	A	45	-8.144	5.033	3.482	1.00	0.00
ATOM 663	H	GLU	A	45	-7.761	-0.743	3.240	1.00	0.00
ATOM 664	HA	GLU	A	45	-5.883	1.285	2.834	1.00	0.00
ATOM 665	1HB	GLU	A	45	-8.659	1.118	3.138	1.00	0.00
ATOM 666	2HB	GLU	A	45	-8.131	2.199	4.419	1.00	0.00
ATOM 667	1HG	GLU	A	45	-7.072	2.638	1.680	1.00	0.00
ATOM 668	2HG	GLU	A	45	-8.742	3.088	2.022	1.00	0.00
ATOM 669	N	ASN	A	46	-6.301	0.406	5.944	1.00	0.00
ATOM 670	CA	ASN	A	46	-5.771	0.545	7.295	1.00	0.00
ATOM 671	C	ASN	A	46	-4.322	0.076	7.361	1.00	0.00
ATOM 672	O	ASN	A	46	-3.482	0.710	8.000	1.00	0.00
ATOM 673	CB	ASN	A	46	-6.627	-0.253	8.283	1.00	0.00
ATOM 674	CG	ASN	A	46	-7.027	0.564	9.495	1.00	0.00
ATOM 675	OD1	ASN	A	46	-6.344	1.519	9.867	1.00	0.00

ATOM 676	ND2	ASN A	46	-8.140	0.193	10.117	1.00	0.00
ATOM 677	H	ASN A	46	-6.935	-0.316	5.751	1.00	0.00
ATOM 678	HA	ASN A	46	-5.812	1.591	7.561	1.00	0.00
ATOM 679	1HB	ASN A	46	-7.525	-0.584	7.784	1.00	0.00
ATOM 680	2HB	ASN A	46	-6.069	-1.115	8.619	1.00	0.00
ATOM 681	1HD2	ASN A	46	-8.632	-0.577	9.764	1.00	0.00
ATOM 682	2HD2	ASN A	46	-8.422	0.702	10.904	1.00	0.00
ATOM 683	N	ALA A	47	-4.037	-1.039	6.697	1.00	0.00
ATOM 684	CA	ALA A	47	-2.690	-1.596	6.679	1.00	0.00
ATOM 685	C	ALA A	47	-1.713	-0.652	5.986	1.00	0.00
ATOM 686	O	ALA A	47	-0.645	-0.348	6.518	1.00	0.00
ATOM 687	CB	ALA A	47	-2.693	-2.955	5.993	1.00	0.00
ATOM 688	H	ALA A	47	-4.750	-1.499	6.207	1.00	0.00
ATOM 689	HA	ALA A	47	-2.374	-1.737	7.702	1.00	0.00
ATOM 690	1HB	ALA A	47	-1.854	-3.021	5.318	1.00	0.00
ATOM 691	2HB	ALA A	47	-3.612	-3.075	5.438	1.00	0.00
ATOM 692	3HB	ALA A	47	-2.619	-3.734	6.737	1.00	0.00
ATOM 693	N	LEU A	48	-2.085	-0.193	4.796	1.00	0.00
ATOM 694	CA	LEU A	48	-1.240	0.714	4.028	1.00	0.00
ATOM 695	C	LEU A	48	-0.979	2.004	4.800	1.00	0.00
ATOM 696	O	LEU A	48	0.068	2.633	4.639	1.00	0.00
ATOM 697	CB	LEU A	48	-1.892	1.035	2.682	1.00	0.00
ATOM 698	CG	LEU A	48	-2.154	-0.175	1.783	1.00	0.00
ATOM 699	CD1	LEU A	48	-2.924	0.239	0.539	1.00	0.00
ATOM 700	CD2	LEU A	48	-0.842	-0.846	1.403	1.00	0.00
ATOM 701	H	LEU A	48	-2.947	-0.473	4.423	1.00	0.00
ATOM 702	HA	LEU A	48	-0.298	0.218	3.850	1.00	0.00

ATOM 703	1HB	LEU	A	48	-2.836	1.527	2.871	1.00	0.00
ATOM 704	2HB	LEU	A	48	-1.251	1.719	2.148	1.00	0.00
ATOM 705	HG	LEU	A	48	-2.753	-0.893	2.324	1.00	0.00
ATOM 706	1HD1	LEU	A	48	-3.716	0.919	0.816	1.00	0.00
ATOM 707	2HD1	LEU	A	48	-3.348	-0.636	0.071	1.00	0.00
ATOM 708	3HD1	LEU	A	48	-2.254	0.729	-0.152	1.00	0.00
ATOM 709	1HD2	LEU	A	48	-0.632	-1.645	2.098	1.00	0.00
ATOM 710	2HD2	LEU	A	48	-0.044	-0.120	1.436	1.00	0.00
ATOM 711	3HD2	LEU	A	48	-0.922	-1.250	0.404	1.00	0.00
ATOM 712	N	ASN	A	49	-1.935	2.394	5.636	1.00	0.00
ATOM 713	CA	ASN	A	49	-1.807	3.610	6.431	1.00	0.00
ATOM 714	C	ASN	A	49	-0.583	3.546	7.338	1.00	0.00
ATOM 715	O	ASN	A	49	0.330	4.364	7.225	1.00	0.00
ATOM 716	CB	ASN	A	49	-3.067	3.830	7.270	1.00	0.00
ATOM 717	CG	ASN	A	49	-3.284	5.290	7.614	1.00	0.00
ATOM 718	OD1	ASN	A	49	-2.754	5.793	8.603	1.00	0.00
ATOM 719	ND2	ASN	A	49	-4.070	5.980	6.793	1.00	0.00
ATOM 720	H	ASN	A	49	-2.747	1.851	5.720	1.00	0.00
ATOM 721	HA	ASN	A	49	-1.692	4.439	5.749	1.00	0.00
ATOM 722	1HB	ASN	A	49	-3.925	3.477	6.719	1.00	0.00
ATOM 723	2HB	ASN	A	49	-2.981	3.271	8.191	1.00	0.00
ATOM 724	1HD2	ASN	A	49	-4.459	5.513	6.025	1.00	0.00
ATOM 725	2HD2	ASN	A	49	-4.228	6.926	6.992	1.00	0.00
ATOM 726	N	GLN	A	50	-0.570	2.571	8.242	1.00	0.00
ATOM 727	CA	GLN	A	50	0.543	2.402	9.170	1.00	0.00
ATOM 728	C	GLN	A	50	1.859	2.212	8.421	1.00	0.00
ATOM 729	O	GLN	A	50	2.923	2.587	8.913	1.00	0.00



ATOM 730	CB	GLN A	50	0.291	1.208	10.092	1.00	0.00
ATOM 731	CG	GLN A	50	0.035	-0.092	9.349	1.00	0.00
ATOM 732	CD	GLN A	50	-0.227	-1.256	10.285	1.00	0.00
ATOM 733	OE1	GLN A	50	0.663	-1.692	11.015	1.00	0.00
ATOM 734	NE2	GLN A	50	-1.452	-1.766	10.267	1.00	0.00
ATOM 735	H	GLN A	50	-1.327	1.949	8.285	1.00	0.00
ATOM 736	HA	GLN A	50	0.611	3.298	9.768	1.00	0.00
ATOM 737	1HB	GLN A	50	1.154	1.070	10.727	1.00	0.00
ATOM 738	2HB	GLN A	50	-0.568	1.420	10.710	1.00	0.00
ATOM 739	1HG	GLN A	50	-0.827	0.037	8.712	1.00	0.00
ATOM 740	2HG	GLN A	50	0.899	-0.323	8.744	1.00	0.00
ATOM 741	1HE2	GLN A	50	-2.111	-1.369	9.660	1.00	0.00
ATOM 742	2HE2	GLN A	50	-1.649	-2.519	10.862	1.00	0.00
ATOM 743	N	LEU A	51	1.778	1.629	7.229	1.00	0.00
ATOM 744	CA	LEU A	51	2.965	1.391	6.414	1.00	0.00
ATOM 745	C	LEU A	51	3.646	2.707	6.049	1.00	0.00
ATOM 746	O	LEU A	51	4.874	2.794	6.016	1.00	0.00
ATOM 747	CB	LEU A	51	2.594	0.625	5.143	1.00	0.00
ATOM 748	CG	LEU A	51	3.755	-0.098	4.459	1.00	0.00
ATOM 749	CD1	LEU A	51	3.260	-1.342	3.737	1.00	0.00
ATOM 750	CD2	LEU A	51	4.467	0.835	3.490	1.00	0.00
ATOM 751	H	LEU A	51	0.902	1.352	6.889	1.00	0.00
ATOM 752	HA	LEU A	51	3.651	0.795	6.996	1.00	0.00
ATOM 753	1HB	LEU A	51	1.841	-0.107	5.397	1.00	0.00
ATOM 754	2HB	LEU A	51	2.168	1.323	4.438	1.00	0.00
ATOM 755	HG	LEU A	51	4.467	-0.410	5.208	1.00	0.00
ATOM 756	1HD1	LEU A	51	3.830	-1.483	2.830	1.00	0.00

ATOM 757	2HD1	LEU	A	51	2.215	-1.223	3.490	1.00	0.00
ATOM 758	3HD1	LEU	A	51	3.384	-2.202	4.376	1.00	0.00
ATOM 759	1HD2	LEU	A	51	3.741	1.298	2.837	1.00	0.00
ATOM 760	2HD2	LEU	A	51	5.174	0.271	2.900	1.00	0.00
ATOM 761	3HD2	LEU	A	51	4.991	1.599	4.046	1.00	0.00
ATOM 762	N	PHE	A	52	2.841	3.729	5.778	1.00	0.00
ATOM 763	CA	PHE	A	52	3.368	5.041	5.418	1.00	0.00
ATOM 764	C	PHE	A	52	4.075	5.687	6.604	1.00	0.00
ATOM 765	O	PHE	A	52	5.119	6.321	6.448	1.00	0.00
ATOM 766	CB	PHE	A	52	2.240	5.950	4.928	1.00	0.00
ATOM 767	CG	PHE	A	52	1.313	5.286	3.949	1.00	0.00
ATOM 768	CD1	PHE	A	52	1.816	4.520	2.909	1.00	0.00
ATOM 769	CD2	PHE	A	52	-0.060	5.428	4.069	1.00	0.00
ATOM 770	CE1	PHE	A	52	0.965	3.909	2.007	1.00	0.00
ATOM 771	CE2	PHE	A	52	-0.915	4.820	3.170	1.00	0.00
ATOM 772	CZ	PHE	A	52	-0.402	4.059	2.138	1.00	0.00
ATOM 773	H	PHE	A	52	1.871	3.599	5.823	1.00	0.00
ATOM 774	HA	PHE	A	52	4.081	4.904	4.619	1.00	0.00
ATOM 775	1HB	PHE	A	52	1.651	6.271	5.775	1.00	0.00
ATOM 776	2HB	PHE	A	52	2.669	6.816	4.446	1.00	0.00
ATOM 777	HD1	PHE	A	52	2.884	4.403	2.806	1.00	0.00
ATOM 778	HD2	PHE	A	52	-0.462	6.023	4.876	1.00	0.00
ATOM 779	HE1	PHE	A	52	1.370	3.315	1.200	1.00	0.00
ATOM 780	HE2	PHE	A	52	-1.983	4.938	3.275	1.00	0.00
ATOM 781	HZ	PHE	A	52	-1.068	3.582	1.434	1.00	0.00
ATOM 782	N	ARG	A	53	3.499	5.524	7.791	1.00	0.00
ATOM 783	CA	ARG	A	53	4.072	6.092	9.006	1.00	0.00

ATOM 784	C	ARG A	53	5.295	5.301	9.468	1.00	0.00
ATOM 785	O	ARG A	53	6.041	5.750	10.337	1.00	0.00
ATOM 786	CB	ARG A	53	3.024	6.126	10.119	1.00	0.00
ATOM 787	CG	ARG A	53	1.668	6.638	9.663	1.00	0.00
ATOM 788	CD	ARG A	53	0.867	7.208	10.822	1.00	0.00
ATOM 789	NE	ARG A	53	0.863	8.669	10.820	1.00	0.00
ATOM 790	CZ	ARG A	53	-0.022	9.409	11.483	1.00	0.00
ATOM 791	NH1	ARG A	53	-0.974	8.830	12.204	1.00	0.00
ATOM 792	NH2	ARG A	53	0.045	10.732	11.427	1.00	0.00
ATOM 793	H	ARG A	53	2.667	5.010	7.851	1.00	0.00
ATOM 794	HA	ARG A	53	4.378	7.104	8.784	1.00	0.00
ATOM 795	1HB	ARG A	53	2.895	5.127	10.507	1.00	0.00
ATOM 796	2HB	ARG A	53	3.379	6.767	10.912	1.00	0.00
ATOM 797	1HG	ARG A	53	1.816	7.414	8.926	1.00	0.00
ATOM 798	2HG	ARG A	53	1.115	5.821	9.222	1.00	0.00
ATOM 799	1HD	ARG A	53	-0.152	6.855	10.747	1.00	0.00
ATOM 800	2HD	ARG A	53	1.300	6.860	11.748	1.00	0.00
ATOM 801	HE	ARG A	53	1.556	9.122	10.294	1.00	0.00
ATOM 802	1HH1	ARG A	53	-1.031	7.833	12.252	1.00	0.00
ATOM 803	2HH1	ARG A	53	-1.636	9.391	12.701	1.00	0.00
ATOM 804	1HH2	ARG A	53	0.761	11.174	10.886	1.00	0.00
ATOM 805	2HH2	ARG A	53	-0.619	11.288	11.925	1.00	0.00
ATOM 806	N	ASN A	54	5.498	4.120	8.885	1.00	0.00
ATOM 807	CA	ASN A	54	6.631	3.277	9.248	1.00	0.00
ATOM 808	C	ASN A	54	7.718	3.331	8.178	1.00	0.00
ATOM 809	O	ASN A	54	8.903	3.177	8.475	1.00	0.00
ATOM 810	CB	ASN A	54	6.173	1.832	9.451	1.00	0.00

ATOM 811	CG	ASN A	54	5.579	1.602	10.827	1.00	0.00
ATOM 812	OD1	ASN A	54	6.198	1.916	11.844	1.00	0.00
ATOM 813	ND2	ASN A	54	4.370	1.052	10.865	1.00	0.00
ATOM 814	H	ASN A	54	4.872	3.810	8.200	1.00	0.00
ATOM 815	HA	ASN A	54	7.038	3.649	10.175	1.00	0.00
ATOM 816	1HB	ASN A	54	5.424	1.591	8.712	1.00	0.00
ATOM 817	2HB	ASN A	54	7.019	1.171	9.329	1.00	0.00
ATOM 818	1HD2	ASN A	54	3.936	0.829	10.016	1.00	0.00
ATOM 819	2HD2	ASN A	54	3.962	0.892	11.742	1.00	0.00
ATOM 820	N	SER A	55	7.308	3.550	6.933	1.00	0.00
ATOM 821	CA	SER A	55	8.247	3.622	5.819	1.00	0.00
ATOM 822	C	SER A	55	9.270	4.733	6.039	1.00	0.00
ATOM 823	O	SER A	55	9.000	5.712	6.734	1.00	0.00
ATOM 824	CB	SER A	55	7.498	3.857	4.507	1.00	0.00
ATOM 825	OG	SER A	55	6.505	4.858	4.658	1.00	0.00
ATOM 826	H	SER A	55	6.350	3.664	6.758	1.00	0.00
ATOM 827	HA	SER A	55	8.766	2.677	5.762	1.00	0.00
ATOM 828	1HB	SER A	55	8.196	4.173	3.747	1.00	0.00
ATOM 829	2HB	SER A	55	7.021	2.939	4.197	1.00	0.00
ATOM 830	HG	SER A	55	6.913	5.668	4.970	1.00	0.00
ATOM 831	N	SER A	56	10.446	4.573	5.438	1.00	0.00
ATOM 832	CA	SER A	56	11.510	5.562	5.565	1.00	0.00
ATOM 833	C	SER A	56	11.047	6.927	5.063	1.00	0.00
ATOM 834	O	SER A	56	11.547	7.963	5.500	1.00	0.00
ATOM 835	CB	SER A	56	12.747	5.112	4.787	1.00	0.00
ATOM 836	OG	SER A	56	13.716	6.145	4.728	1.00	0.00
ATOM 837	H	SER A	56	10.601	3.771	4.897	1.00	0.00

ATOM 838	HA	SER A	56	11.764	5.644	6.611	1.00	0.00
ATOM 839	1HB	SER A	56	13.185	4.254	5.276	1.00	0.00
ATOM 840	2HB	SER A	56	12.460	4.846	3.780	1.00	0.00
ATOM 841	HG	SER A	56	13.817	6.540	5.596	1.00	0.00
ATOM 842	N	ILE A	57	10.086	6.919	4.144	1.00	0.00
ATOM 843	CA	ILE A	57	9.552	8.154	3.586	1.00	0.00
ATOM 844	C	ILE A	57	8.304	8.597	4.343	1.00	0.00
ATOM 845	O	ILE A	57	7.285	8.936	3.741	1.00	0.00
ATOM 846	CB	ILE A	57	9.209	7.992	2.091	1.00	0.00
ATOM 847	CG1	ILE A	57	8.172	6.885	1.898	1.00	0.00
ATOM 848	CG2	ILE A	57	10.465	7.695	1.287	1.00	0.00
ATOM 849	CD1	ILE A	57	7.476	6.936	0.555	1.00	0.00
ATOM 850	H	ILE A	57	9.724	6.062	3.837	1.00	0.00
ATOM 851	HA	ILE A	57	10.310	8.918	3.681	1.00	0.00
ATOM 852	HB	ILE A	57	8.797	8.926	1.738	1.00	0.00
ATOM 853	1HG1	ILE A	57	8.659	5.926	1.983	1.00	0.00
ATOM 854	2HG1	ILE A	57	7.417	6.969	2.667	1.00	0.00
ATOM 855	1HG2	ILE A	57	10.782	6.681	1.476	1.00	0.00
ATOM 856	2HG2	ILE A	57	11.249	8.379	1.578	1.00	0.00
ATOM 857	3HG2	ILE A	57	10.255	7.817	0.233	1.00	0.00
ATOM 858	1HD1	ILE A	57	6.803	6.097	0.466	1.00	0.00
ATOM 859	2HD1	ILE A	57	8.214	6.892	-0.233	1.00	0.00
ATOM 860	3HD1	ILE A	57	6.917	7.856	0.474	1.00	0.00
ATOM 861	N	LYS A	58	8.393	8.590	5.669	1.00	0.00
ATOM 862	CA	LYS A	58	7.272	8.988	6.514	1.00	0.00
ATOM 863	C	LYS A	58	7.325	10.480	6.840	1.00	0.00
ATOM 864	O	LYS A	58	6.812	10.916	7.870	1.00	0.00

ATOM 865	CB	LYS	A	58	7.270	8.175	7.810	1.00	0.00
ATOM 866	CG	LYS	A	58	8.553	8.305	8.613	1.00	0.00
ATOM 867	CD	LYS	A	58	8.311	8.066	10.095	1.00	0.00
ATOM 868	CE	LYS	A	58	8.235	9.373	10.868	1.00	0.00
ATOM 869	NZ	LYS	A	58	9.493	9.652	11.613	1.00	0.00
ATOM 870	H	LYS	A	58	9.233	8.307	6.089	1.00	0.00
ATOM 871	HA	LYS	A	58	6.362	8.783	5.972	1.00	0.00
ATOM 872	1HB	LYS	A	58	6.449	8.506	8.427	1.00	0.00
ATOM 873	2HB	LYS	A	58	7.129	7.131	7.566	1.00	0.00
ATOM 874	1HG	LYS	A	58	9.268	7.580	8.255	1.00	0.00
ATOM 875	2HG	LYS	A	58	8.950	9.302	8.479	1.00	0.00
ATOM 876	1HD	LYS	A	58	7.379	7.535	10.216	1.00	0.00
ATOM 877	2HD	LYS	A	58	9.120	7.470	10.491	1.00	0.00
ATOM 878	1HE	LYS	A	58	8.054	10.180	10.172	1.00	0.00
ATOM 879	2HE	LYS	A	58	7.416	9.315	11.570	1.00	0.00
ATOM 880	1HZ	LYS	A	58	9.276	10.099	12.527	1.00	0.00
ATOM 881	2HZ	LYS	A	58	10.101	10.293	11.064	1.00	0.00
ATOM 882	3HZ	LYS	A	58	10.010	8.766	11.786	1.00	0.00
ATOM 883	N	SER	A	59	7.941	11.259	5.955	1.00	0.00
ATOM 884	CA	SER	A	59	8.052	12.699	6.152	1.00	0.00
ATOM 885	C	SER	A	59	7.426	13.455	4.983	1.00	0.00
ATOM 886	O	SER	A	59	7.776	14.604	4.716	1.00	0.00
ATOM 887	CB	SER	A	59	9.519	13.103	6.308	1.00	0.00
ATOM 888	OG	SER	A	59	10.373	12.197	5.631	1.00	0.00
ATOM 889	H	SER	A	59	8.329	10.858	5.151	1.00	0.00
ATOM 890	HA	SER	A	59	7.519	12.953	7.056	1.00	0.00
ATOM 891	1HB	SER	A	59	9.665	14.090	5.894	1.00	0.00

ATOM 892	2HB	SER A	59	9.779	13.110	7.356	1.00	0.00
ATOM 893	HG	SER A	59	11.081	12.682	5.201	1.00	0.00
ATOM 894	N	TYR A	60	6.498	12.801	4.290	1.00	0.00
ATOM 895	CA	TYR A	60	5.821	13.408	3.150	1.00	0.00
ATOM 896	C	TYR A	60	4.538	12.653	2.816	1.00	0.00
ATOM 897	O	TYR A	60	3.503	13.259	2.541	1.00	0.00
ATOM 898	CB	TYR A	60	6.746	13.424	1.930	1.00	0.00
ATOM 899	CG	TYR A	60	7.810	14.497	1.991	1.00	0.00
ATOM 900	CD1	TYR A	60	7.467	15.840	2.082	1.00	0.00
ATOM 901	CD2	TYR A	60	9.159	14.165	1.959	1.00	0.00
ATOM 902	CE1	TYR A	60	8.438	16.822	2.138	1.00	0.00
ATOM 903	CE2	TYR A	60	10.135	15.141	2.015	1.00	0.00
ATOM 904	CZ	TYR A	60	9.770	16.467	2.105	1.00	0.00
ATOM 905	OH	TYR A	60	10.740	17.442	2.161	1.00	0.00
ATOM 906	H	TYR A	60	6.262	11.887	4.552	1.00	0.00
ATOM 907	HA	TYR A	60	5.569	14.423	3.415	1.00	0.00
ATOM 908	1HB	TYR A	60	7.242	12.470	1.851	1.00	0.00
ATOM 909	2HB	TYR A	60	6.155	13.593	1.042	1.00	0.00
ATOM 910	HD1	TYR A	60	6.423	16.115	2.108	1.00	0.00
ATOM 911	HD2	TYR A	60	9.441	13.125	1.888	1.00	0.00
ATOM 912	HE1	TYR A	60	8.151	17.861	2.209	1.00	0.00
ATOM 913	HE2	TYR A	60	11.178	14.862	1.988	1.00	0.00
ATOM 914	HH	TYR A	60	11.128	17.458	3.039	1.00	0.00
ATOM 915	N	PHE A	61	4.613	11.324	2.843	1.00	0.00
ATOM 916	CA	PHE A	61	3.456	10.485	2.544	1.00	0.00
ATOM 917	C	PHE A	61	2.256	10.881	3.399	1.00	0.00
ATOM 918	O	PHE A	61	2.274	10.731	4.620	1.00	0.00

ATOM 919	CB	PHE A	61	3.798	9.011	2.777	1.00	0.00
ATOM 920	CG	PHE A	61	3.006	8.068	1.916	1.00	0.00
ATOM 921	CD1	PHE A	61	3.649	7.142	1.109	1.00	0.00
ATOM 922	CD2	PHE A	61	1.621	8.106	1.914	1.00	0.00
ATOM 923	CE1	PHE A	61	2.924	6.272	0.317	1.00	0.00
ATOM 924	CE2	PHE A	61	0.892	7.238	1.124	1.00	0.00
ATOM 925	CZ	PHE A	61	1.544	6.321	0.323	1.00	0.00
ATOM 926	H	PHE A	61	5.466	10.899	3.069	1.00	0.00
ATOM 927	HA	PHE A	61	3.204	10.625	1.504	1.00	0.00
ATOM 928	1HB	PHE A	61	4.844	8.854	2.567	1.00	0.00
ATOM 929	2HB	PHE A	61	3.601	8.763	3.810	1.00	0.00
ATOM 930	HD1	PHE A	61	4.728	7.103	1.103	1.00	0.00
ATOM 931	HD2	PHE A	61	1.110	8.823	2.540	1.00	0.00
ATOM 932	HE1	PHE A	61	3.436	5.556	-0.308	1.00	0.00
ATOM 933	HE2	PHE A	61	-0.188	7.279	1.131	1.00	0.00
ATOM 934	HZ	PHE A	61	0.975	5.642	-0.295	1.00	0.00
ATOM 935	N	SER A	62	1.215	11.389	2.747	1.00	0.00
ATOM 936	CA	SER A	62	0.006	11.809	3.445	1.00	0.00
ATOM 937	C	SER A	62	-0.920	10.623	3.692	1.00	0.00
ATOM 938	O	SER A	62	-1.174	10.250	4.837	1.00	0.00
ATOM 939	CB	SER A	62	-0.724	12.884	2.639	1.00	0.00
ATOM 940	OG	SER A	62	-0.401	12.798	1.262	1.00	0.00
ATOM 941	H	SER A	62	1.262	11.484	1.773	1.00	0.00
ATOM 942	HA	SER A	62	0.301	12.224	4.397	1.00	0.00
ATOM 943	1HB	SER A	62	-1.790	12.755	2.753	1.00	0.00
ATOM 944	2HB	SER A	62	-0.438	13.861	3.002	1.00	0.00
ATOM 945	HG	SER A	62	-0.977	12.159	0.836	1.00	0.00



ATOM 946	N	ASP A	63	-1.424	10.037	2.612	1.00	0.00
ATOM 947	CA	ASP A	63	-2.324	8.894	2.714	1.00	0.00
ATOM 948	C	ASP A	63	-2.495	8.208	1.363	1.00	0.00
ATOM 949	O	ASP A	63	-1.858	8.581	0.377	1.00	0.00
ATOM 950	CB	ASP A	63	-3.686	9.340	3.249	1.00	0.00
ATOM 951	CG	ASP A	63	-4.335	10.394	2.373	1.00	0.00
ATOM 952	OD1	ASP A	63	-4.290	11.585	2.748	1.00	0.00
ATOM 953	OD2	ASP A	63	-4.886	10.029	1.313	1.00	0.00
ATOM 954	H	ASP A	63	-1.187	10.381	1.725	1.00	0.00
ATOM 955	HA	ASP A	63	-1.888	8.192	3.408	1.00	0.00
ATOM 956	1HB	ASP A	63	-4.345	8.486	3.297	1.00	0.00
ATOM 957	2HB	ASP A	63	-3.561	9.748	4.240	1.00	0.00
ATOM 958	N	CYS A	64	-3.362	7.201	1.327	1.00	0.00
ATOM 959	CA	CYS A	64	-3.620	6.458	0.099	1.00	0.00
ATOM 960	C	CYS A	64	-5.107	6.471	-0.241	1.00	0.00
ATOM 961	O	CYS A	64	-5.953	6.658	0.634	1.00	0.00
ATOM 962	CB	CYS A	64	-3.130	5.017	0.240	1.00	0.00
ATOM 963	SG	CYS A	64	-3.321	4.022	-1.257	1.00	0.00
ATOM 964	H	CYS A	64	-3.838	6.952	2.145	1.00	0.00
ATOM 965	HA	CYS A	64	-3.076	6.938	-0.700	1.00	0.00
ATOM 966	1HB	CYS A	64	-2.082	5.025	0.496	1.00	0.00
ATOM 967	2HB	CYS A	64	-3.684	4.532	1.031	1.00	0.00
ATOM 968	HG	CYS A	64	-4.225	3.699	-1.284	1.00	0.00
ATOM 969	N	GLN A	65	-5.419	6.274	-1.518	1.00	0.00
ATOM 970	CA	GLN A	65	-6.803	6.262	-1.975	1.00	0.00
ATOM 971	C	GLN A	65	-7.098	5.004	-2.785	1.00	0.00
ATOM 972	O	GLN A	65	-6.681	4.884	-3.938	1.00	0.00

ATOM 973	CB	GLN A	65	-7.094	7.505	-2.817	1.00	0.00
ATOM 974	CG	GLN A	65	-8.534	7.591	-3.297	1.00	0.00
ATOM 975	CD	GLN A	65	-8.910	8.983	-3.768	1.00	0.00
ATOM 976	OE1	GLN A	65	-9.058	9.904	-2.965	1.00	0.00
ATOM 977	NE2	GLN A	65	-9.066	9.141	-5.077	1.00	0.00
ATOM 978	H	GLN A	65	-4.699	6.131	-2.168	1.00	0.00
ATOM 979	HA	GLN A	65	-7.440	6.271	-1.103	1.00	0.00
ATOM 980	1HB	GLN A	65	-6.881	8.384	-2.226	1.00	0.00
ATOM 981	2HB	GLN A	65	-6.449	7.499	-3.683	1.00	0.00
ATOM 982	1HG	GLN A	65	-8.669	6.903	-4.116	1.00	0.00
ATOM 983	2HG	GLN A	65	-9.188	7.314	-2.483	1.00	0.00
ATOM 984	1HE2	GLN A	65	-8.932	8.363	-5.657	1.00	0.00
ATOM 985	2HE2	GLN A	65	-9.309	10.031	-5.410	1.00	0.00
ATOM 986	N	VAL A	66	-7.818	4.068	-2.175	1.00	0.00
ATOM 987	CA	VAL A	66	-8.169	2.820	-2.841	1.00	0.00
ATOM 988	C	VAL A	66	-9.269	3.040	-3.876	1.00	0.00
ATOM 989	O	VAL A	66	-10.409	3.346	-3.530	1.00	0.00
ATOM 990	CB	VAL A	66	-8.630	1.754	-1.826	1.00	0.00
ATOM 991	CG1	VAL A	66	-9.870	2.222	-1.081	1.00	0.00
ATOM 992	CG2	VAL A	66	-8.886	0.425	-2.523	1.00	0.00
ATOM 993	H	VAL A	66	-8.123	4.222	-1.257	1.00	0.00
ATOM 994	HA	VAL A	66	-7.286	2.451	-3.342	1.00	0.00
ATOM 995	HB	VAL A	66	-7.839	1.609	-1.105	1.00	0.00
ATOM 996	1HG1	VAL A	66	-9.808	1.912	-0.047	1.00	0.00
ATOM 997	2HG1	VAL A	66	-10.749	1.786	-1.534	1.00	0.00
ATOM 998	3HG1	VAL A	66	-9.936	3.299	-1.130	1.00	0.00
ATOM 999	1HG2	VAL A	66	-9.185	-0.312	-1.793	1.00	0.00

ATOM 1000	2HG2	VAL	A	66	-7.983	0.097	-3.017	1.00	0.00
ATOM 1001	3HG2	VAL	A	66	-9.672	0.547	-3.254	1.00	0.00
ATOM 1002	N	LEU	A	67	-8.916	2.884	-5.148	1.00	0.00
ATOM 1003	CA	LEU	A	67	-9.871	3.068	-6.235	1.00	0.00
ATOM 1004	C	LEU	A	67	-10.884	1.928	-6.272	1.00	0.00
ATOM 1005	O	LEU	A	67	-12.071	2.133	-6.016	1.00	0.00
ATOM 1006	CB	LEU	A	67	-9.137	3.157	-7.575	1.00	0.00
ATOM 1007	CG	LEU	A	67	-8.016	4.195	-7.632	1.00	0.00
ATOM 1008	CD1	LEU	A	67	-7.414	4.254	-9.027	1.00	0.00
ATOM 1009	CD2	LEU	A	67	-8.536	5.564	-7.216	1.00	0.00
ATOM 1010	H	LEU	A	67	-7.990	2.641	-5.361	1.00	0.00
ATOM 1011	HA	LEU	A	67	-10.396	3.994	-6.061	1.00	0.00
ATOM 1012	1HB	LEU	A	67	-8.714	2.187	-7.795	1.00	0.00
ATOM 1013	2HB	LEU	A	67	-9.859	3.398	-8.341	1.00	0.00
ATOM 1014	HG	LEU	A	67	-7.234	3.910	-6.942	1.00	0.00
ATOM 1015	1HD1	LEU	A	67	-6.643	3.502	-9.118	1.00	0.00
ATOM 1016	2HD1	LEU	A	67	-6.984	5.231	-9.194	1.00	0.00
ATOM 1017	3HD1	LEU	A	67	-8.184	4.069	-9.761	1.00	0.00
ATOM 1018	1HD2	LEU	A	67	-8.021	6.330	-7.777	1.00	0.00
ATOM 1019	2HD2	LEU	A	67	-8.359	5.710	-6.162	1.00	0.00
ATOM 1020	3HD2	LEU	A	67	-9.596	5.622	-7.416	1.00	0.00
ATOM 1021	N	ALA	A	68	-10.410	0.730	-6.595	1.00	0.00
ATOM 1022	CA	ALA	A	68	-11.277	-0.440	-6.666	1.00	0.00
ATOM 1023	C	ALA	A	68	-10.463	-1.729	-6.663	1.00	0.00
ATOM 1024	O	ALA	A	68	-9.244	-1.705	-6.495	1.00	0.00
ATOM 1025	CB	ALA	A	68	-12.154	-0.371	-7.907	1.00	0.00
ATOM 1026	H	ALA	A	68	-9.455	0.630	-6.789	1.00	0.00

ATOM	1027	HA	ALA	A	68	-11.921	-0.431	-5.798	1.00	0.00
ATOM	1028	1HB	ALA	A	68	-13.136	-0.756	-7.676	1.00	0.00
ATOM	1029	2HB	ALA	A	68	-11.711	-0.963	-8.694	1.00	0.00
ATOM	1030	3HB	ALA	A	68	-12.237	0.656	-8.232	1.00	0.00
ATOM	1031	N	PHE	A	69	-11.146	-2.853	-6.851	1.00	0.00
ATOM	1032	CA	PHE	A	69	-10.488	-4.155	-6.871	1.00	0.00
ATOM	1033	C	PHE	A	69	-10.729	-4.865	-8.199	1.00	0.00
ATOM	1034	O	PHE	A	69	-11.872	-5.043	-8.621	1.00	0.00
ATOM	1035	CB	PHE	A	69	-10.992	-5.023	-5.718	1.00	0.00
ATOM	1036	CG	PHE	A	69	-10.670	-4.465	-4.361	1.00	0.00
ATOM	1037	CD1	PHE	A	69	-9.381	-4.533	-3.858	1.00	0.00
ATOM	1038	CD2	PHE	A	69	-11.656	-3.872	-3.590	1.00	0.00
ATOM	1039	CE1	PHE	A	69	-9.082	-4.020	-2.610	1.00	0.00
ATOM	1040	CE2	PHE	A	69	-11.363	-3.358	-2.340	1.00	0.00
ATOM	1041	CZ	PHE	A	69	-10.074	-3.432	-1.851	1.00	0.00
ATOM	1042	H	PHE	A	69	-12.116	-2.807	-6.980	1.00	0.00
ATOM	1043	HA	PHE	A	69	-9.427	-3.992	-6.751	1.00	0.00
ATOM	1044	1HB	PHE	A	69	-12.065	-5.119	-5.791	1.00	0.00
ATOM	1045	2HB	PHE	A	69	-10.543	-6.003	-5.791	1.00	0.00
ATOM	1046	HD1	PHE	A	69	-8.604	-4.992	-4.451	1.00	0.00
ATOM	1047	HD2	PHE	A	69	-12.665	-3.814	-3.972	1.00	0.00
ATOM	1048	HE1	PHE	A	69	-8.073	-4.079	-2.230	1.00	0.00
ATOM	1049	HE2	PHE	A	69	-12.141	-2.898	-1.749	1.00	0.00
ATOM	1050	HZ	PHE	A	69	-9.843	-3.030	-0.875	1.00	0.00
ATOM	1051	N	ARG	A	70	-9.646	-5.271	-8.853	1.00	0.00
ATOM	1052	CA	ARG	A	70	-9.741	-5.964	-10.132	1.00	0.00
ATOM	1053	C	ARG	A	70	-9.722	-7.476	-9.934	1.00	0.00

ATOM 1054	O	ARG A	70	-8.712	-8.047	-9.523	1.00	0.00
ATOM 1055	CB	ARG A	70	-8.592	-5.545	-11.051	1.00	0.00
ATOM 1056	CG	ARG A	70	-8.968	-5.526	-12.524	1.00	0.00
ATOM 1057	CD	ARG A	70	-9.266	-4.116	-13.011	1.00	0.00
ATOM 1058	NE	ARG A	70	-10.613	-4.002	-13.564	1.00	0.00
ATOM 1059	CZ	ARG A	70	-11.706	-3.814	-12.828	1.00	0.00
ATOM 1060	NH1	ARG A	70	-11.617	-3.713	-11.507	1.00	0.00
ATOM 1061	NH2	ARG A	70	-12.893	-3.726	-13.413	1.00	0.00
ATOM 1062	H	ARG A	70	-8.762	-5.102	-8.465	1.00	0.00
ATOM 1063	HA	ARG A	70	-10.677	-5.686	-10.591	1.00	0.00
ATOM 1064	1HB	ARG A	70	-8.267	-4.554	-10.772	1.00	0.00
ATOM 1065	2HB	ARG A	70	-7.771	-6.234	-10.919	1.00	0.00
ATOM 1066	1HG	ARG A	70	-8.147	-5.928	-13.099	1.00	0.00
ATOM 1067	2HG	ARG A	70	-9.845	-6.141	-12.668	1.00	0.00
ATOM 1068	1HD	ARG A	70	-9.169	-3.432	-12.180	1.00	0.00
ATOM 1069	2HD	ARG A	70	-8.550	-3.855	-13.775	1.00	0.00
ATOM 1070	HE	ARG A	70	-10.710	-4.070	-14.537	1.00	0.00
ATOM 1071	1HH1	ARG A	70	-10.726	-3.777	-11.058	1.00	0.00
ATOM 1072	2HH1	ARG A	70	-12.443	-3.573	-10.960	1.00	0.00
ATOM 1073	1HH2	ARG A	70	-12.965	-3.801	-14.409	1.00	0.00
ATOM 1074	2HH2	ARG A	70	-13.714	-3.586	-12.862	1.00	0.00
ATOM 1075	N	SER A	71	-10.847	-8.120	-10.228	1.00	0.00
ATOM 1076	CA	SER A	71	-10.962	-9.565	-10.082	1.00	0.00
ATOM 1077	C	SER A	71	-10.145	-10.287	-11.150	1.00	0.00
ATOM 1078	O	SER A	71	-10.439	-10.189	-12.340	1.00	0.00
ATOM 1079	CB	SER A	71	-12.428	-9.993	-10.169	1.00	0.00
ATOM 1080	OG	SER A	71	-12.585	-11.353	-9.802	1.00	0.00

ATOM 1081	H	SER A	71	-11.619	-7.609	-10.550	1.00	0.00
ATOM 1082	HA	SER A	71	-10.575	-9.831	-9.110	1.00	0.00
ATOM 1083	1HB	SER A	71	-13.019	-9.383	-9.501	1.00	0.00
ATOM 1084	2HB	SER A	71	-12.779	-9.864	-11.182	1.00	0.00
ATOM 1085	HG	SER A	71	-12.299	-11.916	-10.526	1.00	0.00
ATOM 1086	N	VAL A	72	-9.119	-11.011	-10.713	1.00	0.00
ATOM 1087	CA	VAL A	72	-8.261	-11.750	-11.631	1.00	0.00
ATOM 1088	C	VAL A	72	-9.027	-12.874	-12.324	1.00	0.00
ATOM 1089	O	VAL A	72	-8.613	-13.362	-13.375	1.00	0.00
ATOM 1090	CB	VAL A	72	-7.044	-12.351	-10.904	1.00	0.00
ATOM 1091	CG1	VAL A	72	-6.044	-11.262	-10.546	1.00	0.00
ATOM 1092	CG2	VAL A	72	-7.486	-13.109	-9.661	1.00	0.00
ATOM 1093	H	VAL A	72	-8.937	-11.050	-9.752	1.00	0.00
ATOM 1094	HA	VAL A	72	-7.901	-11.059	-12.380	1.00	0.00
ATOM 1095	HB	VAL A	72	-6.558	-13.048	-11.570	1.00	0.00
ATOM 1096	1HG1	VAL A	72	-6.557	-10.316	-10.462	1.00	0.00
ATOM 1097	2HG1	VAL A	72	-5.292	-11.197	-11.317	1.00	0.00
ATOM 1098	3HG1	VAL A	72	-5.574	-11.501	-9.604	1.00	0.00
ATOM 1099	1HG2	VAL A	72	-7.359	-12.481	-8.792	1.00	0.00
ATOM 1100	2HG2	VAL A	72	-6.886	-14.001	-9.551	1.00	0.00
ATOM 1101	3HG2	VAL A	72	-8.526	-13.385	-9.758	1.00	0.00
ATOM 1102	N	SER A	73	-10.146	-13.282	-11.728	1.00	0.00
ATOM 1103	CA	SER A	73	-10.967	-14.350	-12.289	1.00	0.00
ATOM 1104	C	SER A	73	-10.208	-15.673	-12.297	1.00	0.00
ATOM 1105	O	SER A	73	-9.143	-15.791	-11.691	1.00	0.00
ATOM 1106	CB	SER A	73	-11.415	-13.990	-13.709	1.00	0.00
ATOM 1107	OG	SER A	73	-10.450	-14.388	-14.669	1.00	0.00

ATOM	1108	H	SER	A	73	-10.425	-12.857	-10.891	1.00	0.00
ATOM	1109	HA	SER	A	73	-11.840	-14.456	-11.663	1.00	0.00
ATOM	1110	1HB	SER	A	73	-12.346	-14.490	-13.928	1.00	0.00
ATOM	1111	2HB	SER	A	73	-11.555	-12.921	-13.780	1.00	0.00
ATOM	1112	N	ASN	A	74	-10.763	-16.665	-12.986	1.00	0.00
ATOM	1113	CA	ASN	A	74	-10.142	-17.982	-13.074	1.00	0.00
ATOM	1114	C	ASN	A	74	-10.059	-18.640	-11.699	1.00	0.00
ATOM	1115	O	ASN	A	74	-10.874	-19.497	-11.361	1.00	0.00
ATOM	1116	CB	ASN	A	74	-8.746	-17.873	-13.692	1.00	0.00
ATOM	1117	CG	ASN	A	74	-8.779	-17.918	-15.207	1.00	0.00
ATOM	1118	OD1	ASN	A	74	-8.886	-18.989	-15.805	1.00	0.00
ATOM	1119	ND2	ASN	A	74	-8.684	-16.752	-15.835	1.00	0.00
ATOM	1120	H	ASN	A	74	-11.614	-16.507	-13.446	1.00	0.00
ATOM	1121	HA	ASN	A	74	-10.760	-18.595	-13.714	1.00	0.00
ATOM	1122	1HB	ASN	A	74	-8.295	-16.940	-13.388	1.00	0.00
ATOM	1123	2HB	ASN	A	74	-8.139	-18.694	-13.338	1.00	0.00
ATOM	1124	1HD2	ASN	A	74	-8.600	-15.940	-15.293	1.00	0.00
ATOM	1125	2HD2	ASN	A	74	-8.702	-16.751	-16.815	1.00	0.00
ATOM	1126	N	ASN	A	75	-9.069	-18.232	-10.910	1.00	0.00
ATOM	1127	CA	ASN	A	75	-8.883	-18.783	-9.572	1.00	0.00
ATOM	1128	C	ASN	A	75	-9.296	-17.773	-8.506	1.00	0.00
ATOM	1129	O	ASN	A	75	-8.754	-16.671	-8.438	1.00	0.00
ATOM	1130	CB	ASN	A	75	-7.424	-19.193	-9.365	1.00	0.00
ATOM	1131	CG	ASN	A	75	-7.291	-20.474	-8.566	1.00	0.00
ATOM	1132	OD1	ASN	A	75	-7.215	-21.566	-9.129	1.00	0.00
ATOM	1133	ND2	ASN	A	75	-7.264	-20.347	-7.244	1.00	0.00
ATOM	1134	H	ASN	A	75	-8.451	-17.545	-11.234	1.00	0.00

ATOM	1135	HA	ASN	A	75	-9.509	-19.658	-9.485	1.00	0.00
ATOM	1136	1HB	ASN	A	75	-6.958	-19.341	-10.328	1.00	0.00
ATOM	1137	2HB	ASN	A	75	-6.906	-18.405	-8.837	1.00	0.00
ATOM	1138	1HD2	ASN	A	75	-7.331	-19.446	-6.865	1.00	0.00
ATOM	1139	2HD2	ASN	A	75	-7.179	-21.159	-6.703	1.00	0.00
ATOM	1140	N	ASN	A	76	-10.259	-18.159	-7.676	1.00	0.00
ATOM	1141	CA	ASN	A	76	-10.746	-17.287	-6.612	1.00	0.00
ATOM	1142	C	ASN	A	76	-9.786	-17.286	-5.428	1.00	0.00
ATOM	1143	O	ASN	A	76	-9.909	-18.105	-4.516	1.00	0.00
ATOM	1144	CB	ASN	A	76	-12.137	-17.731	-6.157	1.00	0.00
ATOM	1145	CG	ASN	A	76	-13.201	-17.463	-7.203	1.00	0.00
ATOM	1146	OD1	ASN	A	76	-13.933	-18.367	-7.605	1.00	0.00
ATOM	1147	ND2	ASN	A	76	-13.292	-16.216	-7.648	1.00	0.00
ATOM	1148	H	ASN	A	76	-10.653	-19.051	-7.780	1.00	0.00
ATOM	1149	HA	ASN	A	76	-10.810	-16.285	-7.009	1.00	0.00
ATOM	1150	1HB	ASN	A	76	-12.120	-18.791	-5.951	1.00	0.00
ATOM	1151	2HB	ASN	A	76	-12.400	-17.198	-5.255	1.00	0.00
ATOM	1152	1HD2	ASN	A	76	-12.676	-15.547	-7.282	1.00	0.00
ATOM	1153	2HD2	ASN	A	76	-13.972	-16.014	-8.325	1.00	0.00
ATOM	1154	N	ASN	A	77	-8.831	-16.363	-5.447	1.00	0.00
ATOM	1155	CA	ASN	A	77	-7.850	-16.255	-4.374	1.00	0.00
ATOM	1156	C	ASN	A	77	-7.097	-14.930	-4.457	1.00	0.00
ATOM	1157	O	ASN	A	77	-6.888	-14.260	-3.446	1.00	0.00
ATOM	1158	CB	ASN	A	77	-6.863	-17.423	-4.440	1.00	0.00
ATOM	1159	CG	ASN	A	77	-6.656	-18.079	-3.088	1.00	0.00
ATOM	1160	OD1	ASN	A	77	-5.523	-18.302	-2.661	1.00	0.00
ATOM	1161	ND2	ASN	A	77	-7.753	-18.393	-2.410	1.00	0.00



ATOM	1162	H	ASN	A	77	-8.785	-15.738	-6.201	1.00	0.00
ATOM	1163	HA	ASN	A	77	-8.380	-16.296	-3.435	1.00	0.00
ATOM	1164	1HB	ASN	A	77	-7.240	-18.167	-5.126	1.00	0.00
ATOM	1165	2HB	ASN	A	77	-5.908	-17.062	-4.795	1.00	0.00
ATOM	1166	1HD2	ASN	A	77	-8.622	-18.186	-2.813	1.00	0.00
ATOM	1167	2HD2	ASN	A	77	-7.648	-18.818	-1.533	1.00	0.00
ATOM	1168	N	HIS	A	78	-6.695	-14.558	-5.667	1.00	0.00
ATOM	1169	CA	HIS	A	78	-5.966	-13.314	-5.883	1.00	0.00
ATOM	1170	C	HIS	A	78	-6.931	-12.147	-6.070	1.00	0.00
ATOM	1171	O	HIS	A	78	-8.128	-12.347	-6.281	1.00	0.00
ATOM	1172	CB	HIS	A	78	-5.050	-13.436	-7.103	1.00	0.00
ATOM	1173	CG	HIS	A	78	-4.332	-14.749	-7.185	1.00	0.00
ATOM	1174	ND1	HIS	A	78	-3.822	-15.256	-8.362	1.00	0.00
ATOM	1175	CD2	HIS	A	78	-4.040	-15.661	-6.227	1.00	0.00
ATOM	1176	CE1	HIS	A	78	-3.249	-16.423	-8.124	1.00	0.00
ATOM	1177	NE2	HIS	A	78	-3.367	-16.690	-6.837	1.00	0.00
ATOM	1178	H	HIS	A	78	-6.892	-15.136	-6.434	1.00	0.00
ATOM	1179	HA	HIS	A	78	-5.362	-13.128	-5.007	1.00	0.00
ATOM	1180	1HB	HIS	A	78	-5.641	-13.325	-8.000	1.00	0.00
ATOM	1181	2HB	HIS	A	78	-4.308	-12.652	-7.068	1.00	0.00
ATOM	1182	HD1	HIS	A	78	-3.873	-14.825	-9.240	1.00	0.00
ATOM	1183	HD2	HIS	A	78	-4.291	-15.590	-5.178	1.00	0.00
ATOM	1184	HE1	HIS	A	78	-2.764	-17.050	-8.858	1.00	0.00
ATOM	1185	HE2	HIS	A	78	-2.963	-17.457	-6.379	1.00	0.00
ATOM	1186	N	THR	A	79	-6.405	-10.929	-5.990	1.00	0.00
ATOM	1187	CA	THR	A	79	-7.224	-9.732	-6.151	1.00	0.00
ATOM	1188	C	THR	A	79	-6.356	-8.505	-6.409	1.00	0.00

ATOM	1189	O	THR	A	79	-5.576	-8.091	-5.550	1.00	0.00
ATOM	1190	CB	THR	A	79	-8.084	-9.507	-4.905	1.00	0.00
ATOM	1191	OG1	THR	A	79	-8.902	-10.636	-4.650	1.00	0.00
ATOM	1192	CG2	THR	A	79	-8.990	-8.300	-5.012	1.00	0.00
ATOM	1193	H	THR	A	79	-5.445	-10.832	-5.819	1.00	0.00
ATOM	1194	HA	THR	A	79	-7.872	-9.886	-7.001	1.00	0.00
ATOM	1195	HB	THR	A	79	-7.435	-9.359	-4.054	1.00	0.00
ATOM	1196	HG1	THR	A	79	-9.158	-10.643	-3.725	1.00	0.00
ATOM	1197	1HG2	THR	A	79	-8.549	-7.471	-4.479	1.00	0.00
ATOM	1198	2HG2	THR	A	79	-9.953	-8.533	-4.582	1.00	0.00
ATOM	1199	3HG2	THR	A	79	-9.114	-8.034	-6.052	1.00	0.00
ATOM	1200	N	GLY	A	80	-6.498	-7.923	-7.596	1.00	0.00
ATOM	1201	CA	GLY	A	80	-5.724	-6.746	-7.944	1.00	0.00
ATOM	1202	C	GLY	A	80	-6.205	-5.506	-7.219	1.00	0.00
ATOM	1203	O	GLY	A	80	-7.291	-4.998	-7.498	1.00	0.00
ATOM	1204	H	GLY	A	80	-7.137	-8.295	-8.240	1.00	0.00
ATOM	1205	1HA	GLY	A	80	-4.689	-6.921	-7.688	1.00	0.00
ATOM	1206	2HA	GLY	A	80	-5.798	-6.581	-9.008	1.00	0.00
ATOM	1207	N	VAL	A	81	-5.398	-5.018	-6.282	1.00	0.00
ATOM	1208	CA	VAL	A	81	-5.750	-3.833	-5.512	1.00	0.00
ATOM	1209	C	VAL	A	81	-5.327	-2.557	-6.233	1.00	0.00
ATOM	1210	O	VAL	A	81	-4.152	-2.189	-6.225	1.00	0.00
ATOM	1211	CB	VAL	A	81	-5.101	-3.858	-4.114	1.00	0.00
ATOM	1212	CG1	VAL	A	81	-5.540	-2.655	-3.291	1.00	0.00
ATOM	1213	CG2	VAL	A	81	-5.440	-5.156	-3.395	1.00	0.00
ATOM	1214	H	VAL	A	81	-4.546	-5.470	-6.102	1.00	0.00
ATOM	1215	HA	VAL	A	81	-6.823	-3.823	-5.386	1.00	0.00

ATOM 1216	HB	VAL A	81	-4.029	-3.811	-4.236	1.00	0.00
ATOM 1217	1HG1	VAL A	81	-5.453	-2.885	-2.240	1.00	0.00
ATOM 1218	2HG1	VAL A	81	-6.568	-2.416	-3.523	1.00	0.00
ATOM 1219	3HG1	VAL A	81	-4.912	-1.808	-3.528	1.00	0.00
ATOM 1220	1HG2	VAL A	81	-6.368	-5.551	-3.782	1.00	0.00
ATOM 1221	2HG2	VAL A	81	-5.544	-4.963	-2.336	1.00	0.00
ATOM 1222	3HG2	VAL A	81	-4.648	-5.872	-3.554	1.00	0.00
ATOM 1223	N	ASP A	82	-6.295	-1.882	-6.846	1.00	0.00
ATOM 1224	CA	ASP A	82	-6.026	-0.641	-7.563	1.00	0.00
ATOM 1225	C	ASP A	82	-6.100	0.549	-6.611	1.00	0.00
ATOM 1226	O	ASP A	82	-7.156	1.161	-6.449	1.00	0.00
ATOM 1227	CB	ASP A	82	-7.025	-0.459	-8.707	1.00	0.00
ATOM 1228	CG	ASP A	82	-6.459	0.371	-9.842	1.00	0.00
ATOM 1229	OD1	ASP A	82	-6.612	-0.038	-11.012	1.00	0.00
ATOM 1230	OD2	ASP A	82	-5.863	1.432	-9.561	1.00	0.00
ATOM 1231	H	ASP A	82	-7.211	-2.224	-6.810	1.00	0.00
ATOM 1232	HA	ASP A	82	-5.027	-0.701	-7.971	1.00	0.00
ATOM 1233	1HB	ASP A	82	-7.296	-1.429	-9.097	1.00	0.00
ATOM 1234	2HB	ASP A	82	-7.910	0.033	-8.330	1.00	0.00
ATOM 1235	N	SER A	83	-4.976	0.861	-5.977	1.00	0.00
ATOM 1236	CA	SER A	83	-4.914	1.969	-5.031	1.00	0.00
ATOM 1237	C	SER A	83	-4.221	3.183	-5.645	1.00	0.00
ATOM 1238	O	SER A	83	-3.883	3.184	-6.828	1.00	0.00
ATOM 1239	CB	SER A	83	-4.182	1.531	-3.762	1.00	0.00
ATOM 1240	OG	SER A	83	-3.219	0.532	-4.047	1.00	0.00
ATOM 1241	H	SER A	83	-4.169	0.331	-6.144	1.00	0.00
ATOM 1242	HA	SER A	83	-5.926	2.241	-4.774	1.00	0.00

ATOM	1243	1HB	SER	A	83	-3.680	2.380	-3.326	1.00	0.00
ATOM	1244	2HB	SER	A	83	-4.896	1.134	-3.055	1.00	0.00
ATOM	1245	HG	SER	A	83	-3.666	-0.289	-4.268	1.00	0.00
ATOM	1246	N	LEU	A	84	-4.019	4.215	-4.831	1.00	0.00
ATOM	1247	CA	LEU	A	84	-3.371	5.438	-5.293	1.00	0.00
ATOM	1248	C	LEU	A	84	-2.439	6.000	-4.223	1.00	0.00
ATOM	1249	O	LEU	A	84	-2.891	6.534	-3.211	1.00	0.00
ATOM	1250	CB	LEU	A	84	-4.425	6.484	-5.665	1.00	0.00
ATOM	1251	CG	LEU	A	84	-3.943	7.594	-6.601	1.00	0.00
ATOM	1252	CD1	LEU	A	84	-2.830	8.399	-5.949	1.00	0.00
ATOM	1253	CD2	LEU	A	84	-3.476	7.010	-7.926	1.00	0.00
ATOM	1254	H	LEU	A	84	-4.315	4.155	-3.899	1.00	0.00
ATOM	1255	HA	LEU	A	84	-2.791	5.197	-6.170	1.00	0.00
ATOM	1256	1HB	LEU	A	84	-5.252	5.976	-6.139	1.00	0.00
ATOM	1257	2HB	LEU	A	84	-4.783	6.942	-4.755	1.00	0.00
ATOM	1258	HG	LEU	A	84	-4.764	8.267	-6.804	1.00	0.00
ATOM	1259	1HD1	LEU	A	84	-1.895	7.870	-6.052	1.00	0.00
ATOM	1260	2HD1	LEU	A	84	-3.052	8.537	-4.901	1.00	0.00
ATOM	1261	3HD1	LEU	A	84	-2.753	9.363	-6.430	1.00	0.00
ATOM	1262	1HD2	LEU	A	84	-3.899	6.025	-8.054	1.00	0.00
ATOM	1263	2HD2	LEU	A	84	-2.398	6.943	-7.928	1.00	0.00
ATOM	1264	3HD2	LEU	A	84	-3.798	7.649	-8.734	1.00	0.00
ATOM	1265	N	CYS	A	85	-1.134	5.884	-4.458	1.00	0.00
ATOM	1266	CA	CYS	A	85	-0.140	6.389	-3.519	1.00	0.00
ATOM	1267	C	CYS	A	85	-0.139	7.914	-3.518	1.00	0.00
ATOM	1268	O	CYS	A	85	0.563	8.543	-4.310	1.00	0.00
ATOM	1269	CB	CYS	A	85	1.251	5.865	-3.881	1.00	0.00

ATOM 1270	SG	CYS A	85	1.532	4.139	-3.418	1.00	0.00
ATOM 1271	H	CYS A	85	-0.834	5.454	-5.286	1.00	0.00
ATOM 1272	HA	CYS A	85	-0.404	6.036	-2.533	1.00	0.00
ATOM 1273	1HB	CYS A	85	1.392	5.944	-4.949	1.00	0.00
ATOM 1274	2HB	CYS A	85	1.997	6.465	-3.381	1.00	0.00
ATOM 1275	HG	CYS A	85	1.549	3.616	-4.222	1.00	0.00
ATOM 1276	N	ASN A	86	-0.936	8.506	-2.633	1.00	0.00
ATOM 1277	CA	ASN A	86	-1.030	9.959	-2.544	1.00	0.00
ATOM 1278	C	ASN A	86	0.007	10.525	-1.580	1.00	0.00
ATOM 1279	O	ASN A	86	0.324	9.912	-0.561	1.00	0.00
ATOM 1280	CB	ASN A	86	-2.434	10.371	-2.099	1.00	0.00
ATOM 1281	CG	ASN A	86	-3.422	10.389	-3.247	1.00	0.00
ATOM 1282	OD1	ASN A	86	-3.172	11.000	-4.287	1.00	0.00
ATOM 1283	ND2	ASN A	86	-4.554	9.719	-3.067	1.00	0.00
ATOM 1284	H	ASN A	86	-1.478	7.953	-2.030	1.00	0.00
ATOM 1285	HA	ASN A	86	-0.845	10.360	-3.528	1.00	0.00
ATOM 1286	1HB	ASN A	86	-2.789	9.674	-1.355	1.00	0.00
ATOM 1287	2HB	ASN A	86	-2.392	11.360	-1.667	1.00	0.00
ATOM 1288	1HD2	ASN A	86	-4.686	9.256	-2.213	1.00	0.00
ATOM 1289	2HD2	ASN A	86	-5.211	9.714	-3.794	1.00	0.00
ATOM 1290	N	PHE A	87	0.528	11.703	-1.910	1.00	0.00
ATOM 1291	CA	PHE A	87	1.527	12.361	-1.074	1.00	0.00
ATOM 1292	C	PHE A	87	1.133	13.807	-0.794	1.00	0.00
ATOM 1293	O	PHE A	87	0.169	14.319	-1.364	1.00	0.00
ATOM 1294	CB	PHE A	87	2.899	12.315	-1.750	1.00	0.00
ATOM 1295	CG	PHE A	87	3.635	11.026	-1.526	1.00	0.00
ATOM 1296	CD1	PHE A	87	4.793	10.997	-0.765	1.00	0.00

ATOM	1297	CD2	PHE	A	87	3.168	9.842	-2.074	1.00	0.00
ATOM	1298	CE1	PHE	A	87	5.471	9.812	-0.557	1.00	0.00
ATOM	1299	CE2	PHE	A	87	3.842	8.654	-1.869	1.00	0.00
ATOM	1300	CZ	PHE	A	87	4.997	8.639	-1.109	1.00	0.00
ATOM	1301	H	PHE	A	87	0.232	12.142	-2.734	1.00	0.00
ATOM	1302	HA	PHE	A	87	1.579	11.826	-0.138	1.00	0.00
ATOM	1303	1HB	PHE	A	87	2.772	12.444	-2.814	1.00	0.00
ATOM	1304	2HB	PHE	A	87	3.509	13.119	-1.364	1.00	0.00
ATOM	1305	HD1	PHE	A	87	5.164	11.914	-0.332	1.00	0.00
ATOM	1306	HD2	PHE	A	87	2.266	9.853	-2.669	1.00	0.00
ATOM	1307	HE1	PHE	A	87	6.374	9.803	0.038	1.00	0.00
ATOM	1308	HE2	PHE	A	87	3.469	7.738	-2.303	1.00	0.00
ATOM	1309	HZ	PHE	A	87	5.526	7.712	-0.947	1.00	0.00
ATOM	1310	N	SER	A	88	1.881	14.462	0.089	1.00	0.00
ATOM	1311	CA	SER	A	88	1.606	15.850	0.442	1.00	0.00
ATOM	1312	C	SER	A	88	2.210	16.805	-0.586	1.00	0.00
ATOM	1313	O	SER	A	88	3.031	16.405	-1.410	1.00	0.00
ATOM	1314	CB	SER	A	88	2.157	16.163	1.837	1.00	0.00
ATOM	1315	OG	SER	A	88	1.106	16.385	2.762	1.00	0.00
ATOM	1316	H	SER	A	88	2.636	14.001	0.510	1.00	0.00
ATOM	1317	HA	SER	A	88	0.534	15.982	0.451	1.00	0.00
ATOM	1318	1HB	SER	A	88	2.752	15.330	2.181	1.00	0.00
ATOM	1319	2HB	SER	A	88	2.772	17.050	1.789	1.00	0.00
ATOM	1320	HG	SER	A	88	1.319	17.143	3.312	1.00	0.00
ATOM	1321	N	PRO	A	89	1.808	18.088	-0.548	1.00	0.00
ATOM	1322	CA	PRO	A	89	2.314	19.101	-1.480	1.00	0.00
ATOM	1323	C	PRO	A	89	3.765	19.473	-1.197	1.00	0.00

ATOM 1324	O	PRO A	89	4.501	19.870	-2.100	1.00	0.00
ATOM 1325	CB	PRO A	89	1.396	20.300	-1.231	1.00	0.00
ATOM 1326	CG	PRO A	89	0.929	20.133	0.173	1.00	0.00
ATOM 1327	CD	PRO A	89	0.832	18.649	0.405	1.00	0.00
ATOM 1328	HA	PRO A	89	2.219	18.778	-2.506	1.00	0.00
ATOM 1329	1HB	PRO A	89	1.955	21.216	-1.356	1.00	0.00
ATOM 1330	2HB	PRO A	89	0.571	20.275	-1.926	1.00	0.00
ATOM 1331	1HG	PRO A	89	1.643	20.573	0.853	1.00	0.00
ATOM 1332	2HG	PRO A	89	-0.040	20.594	0.295	1.00	0.00
ATOM 1333	1HD	PRO A	89	1.104	18.409	1.423	1.00	0.00
ATOM 1334	2HD	PRO A	89	-0.165	18.298	0.187	1.00	0.00
ATOM 1335	N	LEU A	90	4.171	19.344	0.062	1.00	0.00
ATOM 1336	CA	LEU A	90	5.535	19.667	0.464	1.00	0.00
ATOM 1337	C	LEU A	90	6.543	18.816	-0.302	1.00	0.00
ATOM 1338	O	LEU A	90	7.662	19.252	-0.570	1.00	0.00
ATOM 1339	CB	LEU A	90	5.708	19.456	1.969	1.00	0.00
ATOM 1340	CG	LEU A	90	5.235	20.618	2.845	1.00	0.00
ATOM 1341	CD1	LEU A	90	3.725	20.579	3.011	1.00	0.00
ATOM 1342	CD2	LEU A	90	5.925	20.577	4.201	1.00	0.00
ATOM 1343	H	LEU A	90	3.537	19.022	0.737	1.00	0.00
ATOM 1344	HA	LEU A	90	5.710	20.706	0.233	1.00	0.00
ATOM 1345	1HB	LEU A	90	5.158	18.570	2.252	1.00	0.00
ATOM 1346	2HB	LEU A	90	6.756	19.287	2.170	1.00	0.00
ATOM 1347	HG	LEU A	90	5.494	21.550	2.364	1.00	0.00
ATOM 1348	1HD1	LEU A	90	3.426	21.305	3.753	1.00	0.00
ATOM 1349	2HD1	LEU A	90	3.423	19.592	3.332	1.00	0.00
ATOM 1350	3HD1	LEU A	90	3.252	20.813	2.069	1.00	0.00

ATOM	1351	1HD2	LEU	A	90	5.249	20.944	4.959	1.00	0.00
ATOM	1352	2HD2	LEU	A	90	6.808	21.198	4.174	1.00	0.00
ATOM	1353	3HD2	LEU	A	90	6.207	19.560	4.431	1.00	0.00
ATOM	1354	N	ALA	A	91	6.138	17.598	-0.651	1.00	0.00
ATOM	1355	CA	ALA	A	91	7.006	16.686	-1.387	1.00	0.00
ATOM	1356	C	ALA	A	91	7.043	17.041	-2.870	1.00	0.00
ATOM	1357	O	ALA	A	91	6.012	17.339	-3.473	1.00	0.00
ATOM	1358	CB	ALA	A	91	6.542	15.250	-1.197	1.00	0.00
ATOM	1359	H	ALA	A	91	5.235	17.307	-0.410	1.00	0.00
ATOM	1360	HA	ALA	A	91	8.004	16.775	-0.980	1.00	0.00
ATOM	1361	1HB	ALA	A	91	5.485	15.239	-0.976	1.00	0.00
ATOM	1362	2HB	ALA	A	91	7.086	14.802	-0.379	1.00	0.00
ATOM	1363	3HB	ALA	A	91	6.726	14.690	-2.101	1.00	0.00
ATOM	1364	N	ARG	A	92	8.238	17.009	-3.452	1.00	0.00
ATOM	1365	CA	ARG	A	92	8.409	17.328	-4.864	1.00	0.00
ATOM	1366	C	ARG	A	92	9.569	16.540	-5.465	1.00	0.00
ATOM	1367	O	ARG	A	92	10.255	17.017	-6.368	1.00	0.00
ATOM	1368	CB	ARG	A	92	8.647	18.828	-5.046	1.00	0.00
ATOM	1369	CG	ARG	A	92	9.937	19.321	-4.411	1.00	0.00
ATOM	1370	CD	ARG	A	92	10.354	20.673	-4.966	1.00	0.00
ATOM	1371	NE	ARG	A	92	10.171	21.747	-3.992	1.00	0.00
ATOM	1372	CZ	ARG	A	92	10.857	21.842	-2.855	1.00	0.00
ATOM	1373	NH1	ARG	A	92	11.773	20.932	-2.546	1.00	0.00
ATOM	1374	NH2	ARG	A	92	10.626	22.849	-2.025	1.00	0.00
ATOM	1375	H	ARG	A	92	9.023	16.765	-2.919	1.00	0.00
ATOM	1376	HA	ARG	A	92	7.499	17.052	-5.378	1.00	0.00
ATOM	1377	1HB	ARG	A	92	8.682	19.050	-6.102	1.00	0.00



ATOM 1378	2HB	ARG	A	92	7.823	19.368	-4.601	1.00	0.00
ATOM 1379	1HG	ARG	A	92	9.790	19.412	-3.344	1.00	0.00
ATOM 1380	2HG	ARG	A	92	10.720	18.603	-4.608	1.00	0.00
ATOM 1381	1HD	ARG	A	92	11.397	20.627	-5.244	1.00	0.00
ATOM 1382	2HD	ARG	A	92	9.759	20.888	-5.841	1.00	0.00
ATOM 1383	HE	ARG	A	92	9.500	22.432	-4.195	1.00	0.00
ATOM 1384	1HH1	ARG	A	92	11.952	20.169	-3.168	1.00	0.00
ATOM 1385	2HH1	ARG	A	92	12.285	21.010	-1.691	1.00	0.00
ATOM 1386	1HH2	ARG	A	92	9.937	23.538	-2.253	1.00	0.00
ATOM 1387	2HH2	ARG	A	92	11.142	22.921	-1.170	1.00	0.00
ATOM 1388	N	ARG	A	93	9.782	15.331	-4.956	1.00	0.00
ATOM 1389	CA	ARG	A	93	10.859	14.476	-5.442	1.00	0.00
ATOM 1390	C	ARG	A	93	10.589	13.013	-5.102	1.00	0.00
ATOM 1391	O	ARG	A	93	11.481	12.294	-4.648	1.00	0.00
ATOM 1392	CB	ARG	A	93	12.199	14.918	-4.844	1.00	0.00
ATOM 1393	CG	ARG	A	93	13.311	15.044	-5.873	1.00	0.00
ATOM 1394	CD	ARG	A	93	13.687	13.692	-6.460	1.00	0.00
ATOM 1395	NE	ARG	A	93	14.950	13.193	-5.922	1.00	0.00
ATOM 1396	CZ	ARG	A	93	15.627	12.174	-6.444	1.00	0.00
ATOM 1397	NH1	ARG	A	93	15.168	11.542	-7.517	1.00	0.00
ATOM 1398	NH2	ARG	A	93	16.769	11.784	-5.891	1.00	0.00
ATOM 1399	H	ARG	A	93	9.201	15.004	-4.237	1.00	0.00
ATOM 1400	HA	ARG	A	93	10.904	14.579	-6.516	1.00	0.00
ATOM 1401	1HB	ARG	A	93	12.067	15.879	-4.370	1.00	0.00
ATOM 1402	2HB	ARG	A	93	12.505	14.198	-4.100	1.00	0.00
ATOM 1403	1HG	ARG	A	93	12.980	15.692	-6.670	1.00	0.00
ATOM 1404	2HG	ARG	A	93	14.180	15.474	-5.396	1.00	0.00

ATOM 1405	1HD	ARG	A	93	12.905	12.985	-6.232	1.00	0.00
ATOM 1406	2HD	ARG	A	93	13.779	13.794	-7.531	1.00	0.00
ATOM 1407	HE	ARG	A	93	15.311	13.641	-5.128	1.00	0.00
ATOM 1408	1HH1	ARG	A	93	14.308	11.831	-7.939	1.00	0.00
ATOM 1409	2HH1	ARG	A	93	15.682	10.778	-7.905	1.00	0.00
ATOM 1410	1HH2	ARG	A	93	17.119	12.256	-5.082	1.00	0.00
ATOM 1411	2HH2	ARG	A	93	17.278	11.018	-6.284	1.00	0.00
ATOM 1412	N	VAL	A	94	9.353	12.577	-5.324	1.00	0.00
ATOM 1413	CA	VAL	A	94	8.967	11.200	-5.042	1.00	0.00
ATOM 1414	C	VAL	A	94	8.750	10.417	-6.333	1.00	0.00
ATOM 1415	O	VAL	A	94	7.726	10.571	-6.999	1.00	0.00
ATOM 1416	CB	VAL	A	94	7.682	11.136	-4.195	1.00	0.00
ATOM 1417	CG1	VAL	A	94	7.402	9.707	-3.756	1.00	0.00
ATOM 1418	CG2	VAL	A	94	7.787	12.061	-2.989	1.00	0.00
ATOM 1419	H	VAL	A	94	8.687	13.196	-5.688	1.00	0.00
ATOM 1420	HA	VAL	A	94	9.766	10.737	-4.482	1.00	0.00
ATOM 1421	HB	VAL	A	94	6.856	11.470	-4.806	1.00	0.00
ATOM 1422	1HG1	VAL	A	94	7.981	9.481	-2.873	1.00	0.00
ATOM 1423	2HG1	VAL	A	94	7.675	9.027	-4.550	1.00	0.00
ATOM 1424	3HG1	VAL	A	94	6.350	9.598	-3.535	1.00	0.00
ATOM 1425	1HG2	VAL	A	94	7.934	11.472	-2.096	1.00	0.00
ATOM 1426	2HG2	VAL	A	94	6.876	12.633	-2.896	1.00	0.00
ATOM 1427	3HG2	VAL	A	94	8.622	12.732	-3.120	1.00	0.00
ATOM 1428	N	ASP	A	95	9.719	9.577	-6.679	1.00	0.00
ATOM 1429	CA	ASP	A	95	9.633	8.769	-7.890	1.00	0.00
ATOM 1430	C	ASP	A	95	8.798	7.515	-7.649	1.00	0.00
ATOM 1431	O	ASP	A	95	8.631	7.078	-6.511	1.00	0.00

ATOM	1432	CB	ASP	A	95	11.033	8.379	-8.368	1.00	0.00
ATOM	1433	CG	ASP	A	95	11.145	8.368	-9.880	1.00	0.00
ATOM	1434	OD1	ASP	A	95	10.120	8.113	-10.549	1.00	0.00
ATOM	1435	OD2	ASP	A	95	12.255	8.615	-10.395	1.00	0.00
ATOM	1436	H	ASP	A	95	10.510	9.498	-6.107	1.00	0.00
ATOM	1437	HA	ASP	A	95	9.155	9.365	-8.652	1.00	0.00
ATOM	1438	1HB	ASP	A	95	11.749	9.086	-7.978	1.00	0.00
ATOM	1439	2HB	ASP	A	95	11.270	7.391	-8.000	1.00	0.00
ATOM	1440	N	ARG	A	96	8.276	6.942	-8.728	1.00	0.00
ATOM	1441	CA	ARG	A	96	7.458	5.738	-8.634	1.00	0.00
ATOM	1442	C	ARG	A	96	8.249	4.592	-8.012	1.00	0.00
ATOM	1443	O	ARG	A	96	7.688	3.734	-7.333	1.00	0.00
ATOM	1444	CB	ARG	A	96	6.949	5.331	-10.018	1.00	0.00
ATOM	1445	CG	ARG	A	96	8.057	5.125	-11.039	1.00	0.00
ATOM	1446	CD	ARG	A	96	7.560	4.350	-12.249	1.00	0.00
ATOM	1447	NE	ARG	A	96	8.242	4.755	-13.476	1.00	0.00
ATOM	1448	CZ	ARG	A	96	9.484	4.392	-13.788	1.00	0.00
ATOM	1449	NH1	ARG	A	96	10.183	3.616	-12.968	1.00	0.00
ATOM	1450	NH2	ARG	A	96	10.029	4.805	-14.924	1.00	0.00
ATOM	1451	H	ARG	A	96	8.445	7.338	-9.609	1.00	0.00
ATOM	1452	HA	ARG	A	96	6.613	5.962	-8.000	1.00	0.00
ATOM	1453	1HB	ARG	A	96	6.395	4.409	-9.929	1.00	0.00
ATOM	1454	2HB	ARG	A	96	6.289	6.103	-10.387	1.00	0.00
ATOM	1455	1HG	ARG	A	96	8.418	6.088	-11.365	1.00	0.00
ATOM	1456	2HG	ARG	A	96	8.862	4.574	-10.575	1.00	0.00
ATOM	1457	1HD	ARG	A	96	7.734	3.297	-12.083	1.00	0.00
ATOM	1458	2HD	ARG	A	96	6.501	4.525	-12.362	1.00	0.00

ATOM 1459	HE	ARG	A	96	7.749	5.328	-14.100	1.00	0.00
ATOM 1460	1HH1	ARG	A	96	9.777	3.301	-12.110	1.00	0.00
ATOM 1461	2HH1	ARG	A	96	11.115	3.347	-13.208	1.00	0.00
ATOM 1462	1HH2	ARG	A	96	9.509	5.388	-15.546	1.00	0.00
ATOM 1463	2HH2	ARG	A	96	10.963	4.532	-15.159	1.00	0.00
ATOM 1464	N	VAL	A	97	9.557	4.587	-8.249	1.00	0.00
ATOM 1465	CA	VAL	A	97	10.428	3.548	-7.712	1.00	0.00
ATOM 1466	C	VAL	A	97	10.547	3.658	-6.196	1.00	0.00
ATOM 1467	O	VAL	A	97	10.741	2.658	-5.504	1.00	0.00
ATOM 1468	CB	VAL	A	97	11.836	3.619	-8.332	1.00	0.00
ATOM 1469	CG1	VAL	A	97	12.665	2.414	-7.917	1.00	0.00
ATOM 1470	CG2	VAL	A	97	11.747	3.718	-9.847	1.00	0.00
ATOM 1471	H	VAL	A	97	9.947	5.299	-8.797	1.00	0.00
ATOM 1472	HA	VAL	A	97	9.996	2.589	-7.961	1.00	0.00
ATOM 1473	HB	VAL	A	97	12.325	4.509	-7.963	1.00	0.00
ATOM 1474	1HG1	VAL	A	97	13.374	2.179	-8.696	1.00	0.00
ATOM 1475	2HG1	VAL	A	97	12.014	1.568	-7.755	1.00	0.00
ATOM 1476	3HG1	VAL	A	97	13.196	2.641	-7.004	1.00	0.00
ATOM 1477	1HG2	VAL	A	97	10.912	3.130	-10.198	1.00	0.00
ATOM 1478	2HG2	VAL	A	97	12.661	3.345	-10.287	1.00	0.00
ATOM 1479	3HG2	VAL	A	97	11.605	4.750	-10.132	1.00	0.00
ATOM 1480	N	ALA	A	98	10.429	4.879	-5.684	1.00	0.00
ATOM 1481	CA	ALA	A	98	10.524	5.119	-4.248	1.00	0.00
ATOM 1482	C	ALA	A	98	9.470	4.323	-3.486	1.00	0.00
ATOM 1483	O	ALA	A	98	9.798	3.484	-2.647	1.00	0.00
ATOM 1484	CB	ALA	A	98	10.382	6.604	-3.951	1.00	0.00
ATOM 1485	H	ALA	A	98	10.276	5.637	-6.285	1.00	0.00

ATOM 1486	HA	ALA A	98	11.505	4.804	-3.922	1.00	0.00
ATOM 1487	1HB	ALA A	98	10.897	7.174	-4.710	1.00	0.00
ATOM 1488	2HB	ALA A	98	10.811	6.821	-2.985	1.00	0.00
ATOM 1489	3HB	ALA A	98	9.335	6.872	-3.950	1.00	0.00
ATOM 1490	N	ILE A	99	8.203	4.590	-3.787	1.00	0.00
ATOM 1491	CA	ILE A	99	7.101	3.895	-3.130	1.00	0.00
ATOM 1492	C	ILE A	99	7.093	2.414	-3.493	1.00	0.00
ATOM 1493	O	ILE A	99	6.597	1.582	-2.735	1.00	0.00
ATOM 1494	CB	ILE A	99	5.739	4.516	-3.503	1.00	0.00
ATOM 1495	CG1	ILE A	99	5.765	6.030	-3.285	1.00	0.00
ATOM 1496	CG2	ILE A	99	4.623	3.878	-2.689	1.00	0.00
ATOM 1497	CD1	ILE A	99	4.857	6.792	-4.227	1.00	0.00
ATOM 1498	H	ILE A	99	8.005	5.268	-4.466	1.00	0.00
ATOM 1499	HA	ILE A	99	7.237	3.993	-2.062	1.00	0.00
ATOM 1500	HB	ILE A	99	5.550	4.313	-4.546	1.00	0.00
ATOM 1501	1HG1	ILE A	99	5.449	6.247	-2.275	1.00	0.00
ATOM 1502	2HG1	ILE A	99	6.772	6.393	-3.429	1.00	0.00
ATOM 1503	1HG2	ILE A	99	5.046	3.371	-1.833	1.00	0.00
ATOM 1504	2HG2	ILE A	99	4.093	3.164	-3.302	1.00	0.00
ATOM 1505	3HG2	ILE A	99	3.939	4.642	-2.352	1.00	0.00
ATOM 1506	1HD1	ILE A	99	5.189	6.645	-5.243	1.00	0.00
ATOM 1507	2HD1	ILE A	99	4.888	7.843	-3.986	1.00	0.00
ATOM 1508	3HD1	ILE A	99	3.844	6.428	-4.123	1.00	0.00
ATOM 1509	N	TYR A	100	7.650	2.092	-4.658	1.00	0.00
ATOM 1510	CA	TYR A	100	7.709	0.709	-5.122	1.00	0.00
ATOM 1511	C	TYR A	100	8.737	-0.087	-4.325	1.00	0.00
ATOM 1512	O	TYR A	100	8.484	-1.224	-3.928	1.00	0.00

ATOM	1513	CB	TYR A 100	8.058	0.666	-6.611	1.00	0.00
ATOM	1514	CG	TYR A 100	7.981	-0.720	-7.212	1.00	0.00
ATOM	1515	CD1	TYR A 100	9.113	-1.335	-7.733	1.00	0.00
ATOM	1516	CD2	TYR A 100	6.778	-1.412	-7.260	1.00	0.00
ATOM	1517	CE1	TYR A 100	9.048	-2.600	-8.285	1.00	0.00
ATOM	1518	CE2	TYR A 100	6.705	-2.678	-7.809	1.00	0.00
ATOM	1519	CZ	TYR A 100	7.842	-3.267	-8.321	1.00	0.00
ATOM	1520	OH	TYR A 100	7.772	-4.527	-8.870	1.00	0.00
ATOM	1521	H	TYR A 100	8.029	2.799	-5.219	1.00	0.00
ATOM	1522	HA	TYR A 100	6.734	0.268	-4.976	1.00	0.00
ATOM	1523	1HB	TYR A 100	7.374	1.299	-7.153	1.00	0.00
ATOM	1524	2HB	TYR A 100	9.065	1.032	-6.747	1.00	0.00
ATOM	1525	HD1	TYR A 100	10.057	-0.810	-7.703	1.00	0.00
ATOM	1526	HD2	TYR A 100	5.889	-0.948	-6.859	1.00	0.00
ATOM	1527	HE1	TYR A 100	9.939	-3.062	-8.685	1.00	0.00
ATOM	1528	HE2	TYR A 100	5.760	-3.200	-7.838	1.00	0.00
ATOM	1529	HH	TYR A 100	7.175	-5.070	-8.350	1.00	0.00
ATOM	1530	N	GLU A 101	9.899	0.518	-4.100	1.00	0.00
ATOM	1531	CA	GLU A 101	10.968	-0.133	-3.355	1.00	0.00
ATOM	1532	C	GLU A 101	10.652	-0.172	-1.863	1.00	0.00
ATOM	1533	O	GLU A 101	10.992	-1.131	-1.171	1.00	0.00
ATOM	1534	CB	GLU A 101	12.292	0.596	-3.590	1.00	0.00
ATOM	1535	CG	GLU A 101	12.996	0.180	-4.871	1.00	0.00
ATOM	1536	CD	GLU A 101	14.502	0.104	-4.709	1.00	0.00
ATOM	1537	OE1	GLU A 101	14.997	-0.946	-4.248	1.00	0.00
ATOM	1538	OE2	GLU A 101	15.186	1.095	-5.044	1.00	0.00
ATOM	1539	H	GLU A 101	10.041	1.424	-4.445	1.00	0.00

ATOM 1540	HA	GLU A 101	11.056	-1.146	-3.719	1.00	0.00
ATOM 1541	1HB	GLU A 101	12.100	1.657	-3.638	1.00	0.00
ATOM 1542	2HB	GLU A 101	12.951	0.396	-2.760	1.00	0.00
ATOM 1543	1HG	GLU A 101	12.632	-0.792	-5.169	1.00	0.00
ATOM 1544	2HG	GLU A 101	12.767	0.901	-5.642	1.00	0.00
ATOM 1545	N	GLU A 102	9.998	0.877	-1.374	1.00	0.00
ATOM 1546	CA	GLU A 102	9.637	0.962	0.037	1.00	0.00
ATOM 1547	C	GLU A 102	8.536	-0.037	0.379	1.00	0.00
ATOM 1548	O	GLU A 102	8.674	-0.833	1.308	1.00	0.00
ATOM 1549	CB	GLU A 102	9.182	2.384	0.382	1.00	0.00
ATOM 1550	CG	GLU A 102	9.996	3.028	1.492	1.00	0.00
ATOM 1551	CD	GLU A 102	10.946	4.092	0.977	1.00	0.00
ATOM 1552	OE1	GLU A 102	12.022	4.272	1.585	1.00	0.00
ATOM 1553	OE2	GLU A 102	10.613	4.745	-0.035	1.00	0.00
ATOM 1554	H	GLU A 102	9.754	1.611	-1.975	1.00	0.00
ATOM 1555	HA	GLU A 102	10.516	0.725	0.618	1.00	0.00
ATOM 1556	1HB	GLU A 102	9.267	3.000	-0.500	1.00	0.00
ATOM 1557	2HB	GLU A 102	8.149	2.355	0.693	1.00	0.00
ATOM 1558	1HG	GLU A 102	9.319	3.484	2.199	1.00	0.00
ATOM 1559	2HG	GLU A 102	10.573	2.262	1.990	1.00	0.00
ATOM 1560	N	PHE A 103	7.444	0.010	-0.378	1.00	0.00
ATOM 1561	CA	PHE A 103	6.318	-0.890	-0.156	1.00	0.00
ATOM 1562	C	PHE A 103	6.750	-2.349	-0.273	1.00	0.00
ATOM 1563	O	PHE A 103	6.161	-3.232	0.349	1.00	0.00
ATOM 1564	CB	PHE A 103	5.201	-0.597	-1.158	1.00	0.00
ATOM 1565	CG	PHE A 103	3.976	-1.444	-0.958	1.00	0.00
ATOM 1566	CD1	PHE A 103	3.549	-2.312	-1.950	1.00	0.00

ATOM 1567	CD2	PHE A 103	3.254	-1.374	0.223	1.00	0.00
ATOM 1568	CE1	PHE A 103	2.423	-3.093	-1.769	1.00	0.00
ATOM 1569	CE2	PHE A 103	2.128	-2.153	0.410	1.00	0.00
ATOM 1570	CZ	PHE A 103	1.712	-3.014	-0.587	1.00	0.00
ATOM 1571	H	PHE A 103	7.395	0.667	-1.103	1.00	0.00
ATOM 1572	HA	PHE A 103	5.948	-0.716	0.844	1.00	0.00
ATOM 1573	1HB	PHE A 103	4.906	0.438	-1.065	1.00	0.00
ATOM 1574	2HB	PHE A 103	5.568	-0.773	-2.158	1.00	0.00
ATOM 1575	HD1	PHE A 103	4.105	-2.375	-2.874	1.00	0.00
ATOM 1576	HD2	PHE A 103	3.578	-0.701	1.003	1.00	0.00
ATOM 1577	HE1	PHE A 103	2.101	-3.765	-2.550	1.00	0.00
ATOM 1578	HE2	PHE A 103	1.573	-2.089	1.335	1.00	0.00
ATOM 1579	HZ	PHE A 103	0.833	-3.623	-0.444	1.00	0.00
ATOM 1580	N	LEU A 104	7.780	-2.594	-1.075	1.00	0.00
ATOM 1581	CA	LEU A 104	8.289	-3.947	-1.275	1.00	0.00
ATOM 1582	C	LEU A 104	9.298	-4.325	-0.193	1.00	0.00
ATOM 1583	O	LEU A 104	9.535	-5.506	0.060	1.00	0.00
ATOM 1584	CB	LEU A 104	8.936	-4.069	-2.656	1.00	0.00
ATOM 1585	CG	LEU A 104	7.956	-4.078	-3.831	1.00	0.00
ATOM 1586	CD1	LEU A 104	8.707	-4.124	-5.151	1.00	0.00
ATOM 1587	CD2	LEU A 104	7.001	-5.256	-3.715	1.00	0.00
ATOM 1588	H	LEU A 104	8.208	-1.849	-1.546	1.00	0.00
ATOM 1589	HA	LEU A 104	7.452	-4.625	-1.221	1.00	0.00
ATOM 1590	1HB	LEU A 104	9.616	-3.240	-2.786	1.00	0.00
ATOM 1591	2HB	LEU A 104	9.504	-4.987	-2.684	1.00	0.00
ATOM 1592	HG	LEU A 104	7.373	-3.168	-3.810	1.00	0.00
ATOM 1593	1HD1	LEU A 104	8.206	-3.495	-5.873	1.00	0.00



ATOM	1594	2HD1	LEU	A	104	8.732	-5.140	-5.516	1.00	0.00
ATOM	1595	3HD1	LEU	A	104	9.717	-3.769	-5.005	1.00	0.00
ATOM	1596	1HD2	LEU	A	104	6.782	-5.639	-4.702	1.00	0.00
ATOM	1597	2HD2	LEU	A	104	6.085	-4.932	-3.244	1.00	0.00
ATOM	1598	3HD2	LEU	A	104	7.458	-6.031	-3.121	1.00	0.00
ATOM	1599	N	ARG	A	105	9.895	-3.318	0.439	1.00	0.00
ATOM	1600	CA	ARG	A	105	10.881	-3.552	1.489	1.00	0.00
ATOM	1601	C	ARG	A	105	10.205	-3.850	2.824	1.00	0.00
ATOM	1602	O	ARG	A	105	10.743	-4.585	3.653	1.00	0.00
ATOM	1603	CB	ARG	A	105	11.803	-2.337	1.628	1.00	0.00
ATOM	1604	CG	ARG	A	105	13.131	-2.496	0.904	1.00	0.00
ATOM	1605	CD	ARG	A	105	14.300	-2.566	1.877	1.00	0.00
ATOM	1606	NE	ARG	A	105	15.241	-1.466	1.681	1.00	0.00
ATOM	1607	CZ	ARG	A	105	15.040	-0.230	2.131	1.00	0.00
ATOM	1608	NH1	ARG	A	105	13.933	0.069	2.800	1.00	0.00
ATOM	1609	NH2	ARG	A	105	15.949	0.711	1.911	1.00	0.00
ATOM	1610	H	ARG	A	105	9.670	-2.397	0.192	1.00	0.00
ATOM	1611	HA	ARG	A	105	11.472	-4.408	1.201	1.00	0.00
ATOM	1612	1HB	ARG	A	105	11.299	-1.472	1.223	1.00	0.00
ATOM	1613	2HB	ARG	A	105	12.003	-2.169	2.676	1.00	0.00
ATOM	1614	1HG	ARG	A	105	13.107	-3.407	0.325	1.00	0.00
ATOM	1615	2HG	ARG	A	105	13.273	-1.652	0.246	1.00	0.00
ATOM	1616	1HD	ARG	A	105	13.918	-2.524	2.886	1.00	0.00
ATOM	1617	2HD	ARG	A	105	14.819	-3.502	1.729	1.00	0.00
ATOM	1618	HE	ARG	A	105	16.066	-1.659	1.189	1.00	0.00
ATOM	1619	1HH1	ARG	A	105	13.244	-0.635	2.969	1.00	0.00
ATOM	1620	2HH1	ARG	A	105	13.789	1.001	3.135	1.00	0.00

ATOM 1621	1HH2	ARG	A	105	16.784	0.491	1.407	1.00	0.00
ATOM 1622	2HH2	ARG	A	105	15.798	1.641	2.249	1.00	0.00
ATOM 1623	N	MET	A	106	9.026	-3.273	3.031	1.00	0.00
ATOM 1624	CA	MET	A	106	8.282	-3.476	4.270	1.00	0.00
ATOM 1625	C	MET	A	106	7.355	-4.686	4.171	1.00	0.00
ATOM 1626	O	MET	A	106	6.928	-5.233	5.187	1.00	0.00
ATOM 1627	CB	MET	A	106	7.471	-2.227	4.614	1.00	0.00
ATOM 1628	CG	MET	A	106	6.823	-2.285	5.988	1.00	0.00
ATOM 1629	SD	MET	A	106	7.263	-0.881	7.030	1.00	0.00
ATOM 1630	CE	MET	A	106	6.673	0.481	6.027	1.00	0.00
ATOM 1631	H	MET	A	106	8.648	-2.695	2.335	1.00	0.00
ATOM 1632	HA	MET	A	106	8.998	-3.654	5.058	1.00	0.00
ATOM 1633	1HB	MET	A	106	8.124	-1.367	4.580	1.00	0.00
ATOM 1634	2HB	MET	A	106	6.691	-2.104	3.876	1.00	0.00
ATOM 1635	1HG	MET	A	106	5.751	-2.300	5.865	1.00	0.00
ATOM 1636	2HG	MET	A	106	7.139	-3.193	6.481	1.00	0.00
ATOM 1637	1HE	MET	A	106	6.687	0.193	4.985	1.00	0.00
ATOM 1638	2HE	MET	A	106	7.312	1.338	6.172	1.00	0.00
ATOM 1639	3HE	MET	A	106	5.663	0.729	6.318	1.00	0.00
ATOM 1640	N	THR	A	107	7.041	-5.096	2.946	1.00	0.00
ATOM 1641	CA	THR	A	107	6.160	-6.239	2.727	1.00	0.00
ATOM 1642	C	THR	A	107	6.962	-7.519	2.508	1.00	0.00
ATOM 1643	O	THR	A	107	6.531	-8.415	1.782	1.00	0.00
ATOM 1644	CB	THR	A	107	5.251	-5.985	1.524	1.00	0.00
ATOM 1645	OG1	THR	A	107	6.017	-5.720	0.363	1.00	0.00
ATOM 1646	CG2	THR	A	107	4.305	-4.820	1.725	1.00	0.00
ATOM 1647	H	THR	A	107	7.407	-4.621	2.172	1.00	0.00

ATOM 1648	HA	THR A 107	5.549	-6.358	3.609	1.00	0.00
ATOM 1649	HB	THR A 107	4.655	-6.867	1.344	1.00	0.00
ATOM 1650	HG1	THR A 107	6.454	-4.871	0.455	1.00	0.00
ATOM 1651	1HG2	THR A 107	3.339	-5.191	2.032	1.00	0.00
ATOM 1652	2HG2	THR A 107	4.204	-4.274	0.799	1.00	0.00
ATOM 1653	3HG2	THR A 107	4.698	-4.165	2.489	1.00	0.00
ATOM 1654	N	HIS A 108	8.129	-7.601	3.142	1.00	0.00
ATOM 1655	CA	HIS A 108	8.988	-8.775	3.016	1.00	0.00
ATOM 1656	C	HIS A 108	9.270	-9.087	1.548	1.00	0.00
ATOM 1657	O	HIS A 108	9.046	-10.205	1.085	1.00	0.00
ATOM 1658	CB	HIS A 108	8.336	-9.983	3.691	1.00	0.00
ATOM 1659	CG	HIS A 108	8.428	-9.954	5.186	1.00	0.00
ATOM 1660	ND1	HIS A 108	8.700	-8.807	5.902	1.00	0.00
ATOM 1661	CD2	HIS A 108	8.284	-10.942	6.102	1.00	0.00
ATOM 1662	CE1	HIS A 108	8.719	-9.090	7.192	1.00	0.00
ATOM 1663	NE2	HIS A 108	8.469	-10.378	7.340	1.00	0.00
ATOM 1664	H	HIS A 108	8.420	-6.857	3.708	1.00	0.00
ATOM 1665	HA	HIS A 108	9.921	-8.557	3.511	1.00	0.00
ATOM 1666	1HB	HIS A 108	7.290	-10.016	3.425	1.00	0.00
ATOM 1667	2HB	HIS A 108	8.819	-10.885	3.345	1.00	0.00
ATOM 1668	HD1	HIS A 108	8.856	-7.918	5.520	1.00	0.00
ATOM 1669	HD2	HIS A 108	8.064	-11.980	5.897	1.00	0.00
ATOM 1670	HE1	HIS A 108	8.906	-8.387	7.991	1.00	0.00
ATOM 1671	HE2	HIS A 108	8.494	-10.864	8.190	1.00	0.00
ATOM 1672	N	ASN A 109	9.762	-8.088	0.822	1.00	0.00
ATOM 1673	CA	ASN A 109	10.074	-8.253	-0.594	1.00	0.00
ATOM 1674	C	ASN A 109	8.803	-8.505	-1.400	1.00	0.00

ATOM 1675	O	ASN A 109	8.796	-9.302	-2.338	1.00	0.00
ATOM 1676	CB	ASN A 109	11.063	-9.406	-0.791	1.00	0.00
ATOM 1677	CG	ASN A 109	12.354	-8.954	-1.445	1.00	0.00
ATOM 1678	OD1	ASN A 109	13.291	-8.530	-0.769	1.00	0.00
ATOM 1679	ND2	ASN A 109	12.409	-9.042	-2.769	1.00	0.00
ATOM 1680	H	ASN A 109	9.918	-7.219	1.247	1.00	0.00
ATOM 1681	HA	ASN A 109	10.528	-7.336	-0.940	1.00	0.00
ATOM 1682	1HB	ASN A 109	11.301	-9.835	0.170	1.00	0.00
ATOM 1683	2HB	ASN A 109	10.611	-10.162	-1.415	1.00	0.00
ATOM 1684	1HD2	ASN A 109	11.625	-9.388	-3.243	1.00	0.00
ATOM 1685	2HD2	ASN A 109	13.232	-8.756	-3.218	1.00	0.00
ATOM 1686	N	GLY A 110	7.727	-7.818	-1.027	1.00	0.00
ATOM 1687	CA	GLY A 110	6.465	-7.979	-1.723	1.00	0.00
ATOM 1688	C	GLY A 110	5.891	-9.373	-1.564	1.00	0.00
ATOM 1689	O	GLY A 110	5.319	-9.926	-2.503	1.00	0.00
ATOM 1690	H	GLY A 110	7.793	-7.197	-0.271	1.00	0.00
ATOM 1691	1HA	GLY A 110	5.757	-7.263	-1.332	1.00	0.00
ATOM 1692	2HA	GLY A 110	6.617	-7.783	-2.773	1.00	0.00
ATOM 1693	N	THR A 111	6.044	-9.941	-0.374	1.00	0.00
ATOM 1694	CA	THR A 111	5.536	-11.280	-0.096	1.00	0.00
ATOM 1695	C	THR A 111	4.337	-11.228	0.844	1.00	0.00
ATOM 1696	O	THR A 111	3.351	-11.940	0.646	1.00	0.00
ATOM 1697	CB	THR A 111	6.636	-12.151	0.512	1.00	0.00
ATOM 1698	OG1	THR A 111	7.086	-11.605	1.739	1.00	0.00
ATOM 1699	CG2	THR A 111	7.842	-12.310	-0.389	1.00	0.00
ATOM 1700	H	THR A 111	6.509	-9.450	0.336	1.00	0.00
ATOM 1701	HA	THR A 111	5.225	-11.715	-1.034	1.00	0.00

ATOM 1702	HB	THR A 111	6.234	-13.135	0.704	1.00	0.00
ATOM 1703	HG1	THR A 111	6.480	-11.853	2.440	1.00	0.00
ATOM 1704	1HG2	THR A 111	8.129	-11.345	-0.781	1.00	0.00
ATOM 1705	2HG2	THR A 111	7.595	-12.971	-1.207	1.00	0.00
ATOM 1706	3HG2	THR A 111	8.661	-12.727	0.177	1.00	0.00
ATOM 1707	N	GLN A 112	4.427	-10.387	1.869	1.00	0.00
ATOM 1708	CA	GLN A 112	3.345	-10.253	2.838	1.00	0.00
ATOM 1709	C	GLN A 112	3.252	-8.827	3.372	1.00	0.00
ATOM 1710	O	GLN A 112	4.189	-8.323	3.992	1.00	0.00
ATOM 1711	CB	GLN A 112	3.549	-11.231	3.997	1.00	0.00
ATOM 1712	CG	GLN A 112	2.364	-11.305	4.946	1.00	0.00
ATOM 1713	CD	GLN A 112	2.656	-12.133	6.182	1.00	0.00
ATOM 1714	OE1	GLN A 112	3.744	-12.052	6.755	1.00	0.00
ATOM 1715	NE2	GLN A 112	1.686	-12.939	6.598	1.00	0.00
ATOM 1716	H	GLN A 112	5.237	-9.848	1.978	1.00	0.00
ATOM 1717	HA	GLN A 112	2.421	-10.495	2.336	1.00	0.00
ATOM 1718	1HB	GLN A 112	3.723	-12.218	3.595	1.00	0.00
ATOM 1719	2HB	GLN A 112	4.416	-10.925	4.563	1.00	0.00
ATOM 1720	1HG	GLN A 112	2.105	-10.304	5.257	1.00	0.00
ATOM 1721	2HG	GLN A 112	1.528	-11.746	4.423	1.00	0.00
ATOM 1722	1HE2	GLN A 112	0.847	-12.952	6.093	1.00	0.00
ATOM 1723	2HE2	GLN A 112	1.849	-13.486	7.395	1.00	0.00
ATOM 1724	N	LEU A 113	2.113	-8.187	3.131	1.00	0.00
ATOM 1725	CA	LEU A 113	1.887	-6.823	3.591	1.00	0.00
ATOM 1726	C	LEU A 113	1.232	-6.827	4.970	1.00	0.00
ATOM 1727	O	LEU A 113	0.023	-7.014	5.090	1.00	0.00
ATOM 1728	CB	LEU A 113	1.008	-6.064	2.589	1.00	0.00

ATOM 1729	CG	LEU A 113	0.576	-4.653	3.010	1.00	0.00
ATOM 1730	CD1	LEU A 113	-0.662	-4.710	3.891	1.00	0.00
ATOM 1731	CD2	LEU A 113	1.707	-3.922	3.724	1.00	0.00
ATOM 1732	H	LEU A 113	1.404	-8.647	2.636	1.00	0.00
ATOM 1733	HA	LEU A 113	2.846	-6.332	3.662	1.00	0.00
ATOM 1734	1HB	LEU A 113	1.551	-5.986	1.658	1.00	0.00
ATOM 1735	2HB	LEU A 113	0.117	-6.649	2.415	1.00	0.00
ATOM 1736	HG	LEU A 113	0.322	-4.088	2.125	1.00	0.00
ATOM 1737	1HD1	LEU A 113	-1.157	-5.662	3.754	1.00	0.00
ATOM 1738	2HD1	LEU A 113	-1.335	-3.913	3.617	1.00	0.00
ATOM 1739	3HD1	LEU A 113	-0.374	-4.600	4.926	1.00	0.00
ATOM 1740	1HD2	LEU A 113	1.328	-3.004	4.148	1.00	0.00
ATOM 1741	2HD2	LEU A 113	2.491	-3.695	3.018	1.00	0.00
ATOM 1742	3HD2	LEU A 113	2.100	-4.547	4.511	1.00	0.00
ATOM 1743	N	LEU A 114	2.044	-6.629	6.004	1.00	0.00
ATOM 1744	CA	LEU A 114	1.550	-6.615	7.379	1.00	0.00
ATOM 1745	C	LEU A 114	0.947	-7.965	7.757	1.00	0.00
ATOM 1746	O	LEU A 114	1.574	-8.760	8.458	1.00	0.00
ATOM 1747	CB	LEU A 114	0.512	-5.505	7.561	1.00	0.00
ATOM 1748	CG	LEU A 114	1.072	-4.084	7.510	1.00	0.00
ATOM 1749	CD1	LEU A 114	-0.056	-3.067	7.435	1.00	0.00
ATOM 1750	CD2	LEU A 114	1.954	-3.817	8.721	1.00	0.00
ATOM 1751	H	LEU A 114	3.000	-6.492	5.842	1.00	0.00
ATOM 1752	HA	LEU A 114	2.389	-6.417	8.027	1.00	0.00
ATOM 1753	1HB	LEU A 114	-0.234	-5.607	6.785	1.00	0.00
ATOM 1754	2HB	LEU A 114	0.031	-5.644	8.518	1.00	0.00
ATOM 1755	HG	LEU A 114	1.678	-3.975	6.623	1.00	0.00

ATOM 1756	1HD1	LEU	A	114	0.206	-2.194	8.014	1.00	0.00
ATOM 1757	2HD1	LEU	A	114	-0.962	-3.503	7.830	1.00	0.00
ATOM 1758	3HD1	LEU	A	114	-0.214	-2.781	6.405	1.00	0.00
ATOM 1759	1HD2	LEU	A	114	1.552	-4.334	9.580	1.00	0.00
ATOM 1760	2HD2	LEU	A	114	1.980	-2.756	8.920	1.00	0.00
ATOM 1761	3HD2	LEU	A	114	2.955	-4.171	8.522	1.00	0.00
ATOM 1762	N	ASN	A	115	-0.271	-8.219	7.291	1.00	0.00
ATOM 1763	CA	ASN	A	115	-0.955	-9.474	7.581	1.00	0.00
ATOM 1764	C	ASN	A	115	-1.683	-9.997	6.347	1.00	0.00
ATOM 1765	O	ASN	A	115	-2.790	-10.527	6.445	1.00	0.00
ATOM 1766	CB	ASN	A	115	-1.945	-9.284	8.732	1.00	0.00
ATOM 1767	CG	ASN	A	115	-1.257	-9.207	10.081	1.00	0.00
ATOM 1768	OD1	ASN	A	115	-0.976	-10.229	10.707	1.00	0.00
ATOM 1769	ND2	ASN	A	115	-0.980	-7.991	10.534	1.00	0.00
ATOM 1770	H	ASN	A	115	-0.720	-7.547	6.737	1.00	0.00
ATOM 1771	HA	ASN	A	115	-0.208	-10.196	7.877	1.00	0.00
ATOM 1772	1HB	ASN	A	115	-2.496	-8.369	8.577	1.00	0.00
ATOM 1773	2HB	ASN	A	115	-2.633	-10.117	8.746	1.00	0.00
ATOM 1774	1HD2	ASN	A	115	-1.233	-7.221	9.982	1.00	0.00
ATOM 1775	2HD2	ASN	A	115	-0.535	-7.911	11.405	1.00	0.00
ATOM 1776	N	PHE	A	116	-1.056	-9.845	5.185	1.00	0.00
ATOM 1777	CA	PHE	A	116	-1.646	-10.304	3.932	1.00	0.00
ATOM 1778	C	PHE	A	116	-0.565	-10.702	2.932	1.00	0.00
ATOM 1779	O	PHE	A	116	0.267	-9.883	2.542	1.00	0.00
ATOM 1780	CB	PHE	A	116	-2.533	-9.210	3.333	1.00	0.00
ATOM 1781	CG	PHE	A	116	-3.887	-9.118	3.975	1.00	0.00
ATOM 1782	CD1	PHE	A	116	-4.127	-8.204	4.989	1.00	0.00

ATOM 1783	CD2	PHE A 116	-4.921	-9.945	3.566	1.00	0.00
ATOM 1784	CE1	PHE A 116	-5.372	-8.117	5.582	1.00	0.00
ATOM 1785	CE2	PHE A 116	-6.168	-9.863	4.155	1.00	0.00
ATOM 1786	CZ	PHE A 116	-6.394	-8.947	5.164	1.00	0.00
ATOM 1787	H	PHE A 116	-0.175	-9.415	5.169	1.00	0.00
ATOM 1788	HA	PHE A 116	-2.254	-11.169	4.149	1.00	0.00
ATOM 1789	1HB	PHE A 116	-2.044	-8.255	3.451	1.00	0.00
ATOM 1790	2HB	PHE A 116	-2.676	-9.409	2.281	1.00	0.00
ATOM 1791	HD1	PHE A 116	-3.329	-7.555	5.316	1.00	0.00
ATOM 1792	HD2	PHE A 116	-4.744	-10.661	2.776	1.00	0.00
ATOM 1793	HE1	PHE A 116	-5.546	-7.402	6.371	1.00	0.00
ATOM 1794	HE2	PHE A 116	-6.965	-10.513	3.827	1.00	0.00
ATOM 1795	HZ	PHE A 116	-7.368	-8.881	5.626	1.00	0.00
ATOM 1796	N	THR A 117	-0.579	-11.967	2.523	1.00	0.00
ATOM 1797	CA	THR A 117	0.403	-12.475	1.570	1.00	0.00
ATOM 1798	C	THR A 117	0.031	-12.092	0.141	1.00	0.00
ATOM 1799	O	THR A 117	-1.026	-12.476	-0.361	1.00	0.00
ATOM 1800	CB	THR A 117	0.519	-13.995	1.689	1.00	0.00
ATOM 1801	OG1	THR A 117	-0.732	-14.615	1.451	1.00	0.00
ATOM 1802	CG2	THR A 117	1.009	-14.453	3.047	1.00	0.00
ATOM 1803	H	THR A 117	-1.266	-12.574	2.870	1.00	0.00
ATOM 1804	HA	THR A 117	1.357	-12.031	1.810	1.00	0.00
ATOM 1805	HB	THR A 117	1.220	-14.350	0.948	1.00	0.00
ATOM 1806	HG1	THR A 117	-1.318	-14.452	2.193	1.00	0.00
ATOM 1807	1HG2	THR A 117	1.164	-15.522	3.032	1.00	0.00
ATOM 1808	2HG2	THR A 117	0.273	-14.206	3.797	1.00	0.00
ATOM 1809	3HG2	THR A 117	1.940	-13.958	3.280	1.00	0.00



ATOM 1810	N	LEU A 118	0.909	-11.337	-0.514	1.00	0.00
ATOM 1811	CA	LEU A 118	0.674	-10.907	-1.889	1.00	0.00
ATOM 1812	C	LEU A 118	1.935	-11.077	-2.733	1.00	0.00
ATOM 1813	O	LEU A 118	3.041	-11.171	-2.202	1.00	0.00
ATOM 1814	CB	LEU A 118	0.206	-9.450	-1.924	1.00	0.00
ATOM 1815	CG	LEU A 118	1.135	-8.447	-1.239	1.00	0.00
ATOM 1816	CD1	LEU A 118	2.153	-7.905	-2.226	1.00	0.00
ATOM 1817	CD2	LEU A 118	0.330	-7.313	-0.622	1.00	0.00
ATOM 1818	H	LEU A 118	1.736	-11.065	-0.062	1.00	0.00
ATOM 1819	HA	LEU A 118	-0.103	-11.534	-2.300	1.00	0.00
ATOM 1820	1HB	LEU A 118	0.095	-9.156	-2.957	1.00	0.00
ATOM 1821	2HB	LEU A 118	-0.759	-9.394	-1.447	1.00	0.00
ATOM 1822	HG	LEU A 118	1.672	-8.946	-0.447	1.00	0.00
ATOM 1823	1HD1	LEU A 118	2.303	-8.623	-3.019	1.00	0.00
ATOM 1824	2HD1	LEU A 118	3.090	-7.728	-1.717	1.00	0.00
ATOM 1825	3HD1	LEU A 118	1.790	-6.977	-2.644	1.00	0.00
ATOM 1826	1HD2	LEU A 118	-0.589	-7.184	-1.173	1.00	0.00
ATOM 1827	2HD2	LEU A 118	0.906	-6.400	-0.662	1.00	0.00
ATOM 1828	3HD2	LEU A 118	0.103	-7.550	0.407	1.00	0.00
ATOM 1829	N	ASP A 119	1.756	-11.118	-4.050	1.00	0.00
ATOM 1830	CA	ASP A 119	2.878	-11.283	-4.970	1.00	0.00
ATOM 1831	C	ASP A 119	3.673	-9.988	-5.108	1.00	0.00
ATOM 1832	O	ASP A 119	3.107	-8.895	-5.089	1.00	0.00
ATOM 1833	CB	ASP A 119	2.374	-11.732	-6.343	1.00	0.00
ATOM 1834	CG	ASP A 119	3.300	-12.737	-6.998	1.00	0.00
ATOM 1835	OD1	ASP A 119	3.994	-12.362	-7.967	1.00	0.00
ATOM 1836	OD2	ASP A 119	3.332	-13.900	-6.543	1.00	0.00

ATOM 1837	H	ASP A 119	0.849	-11.040	-4.412	1.00	0.00
ATOM 1838	HA	ASP A 119	3.525	-12.047	-4.568	1.00	0.00
ATOM 1839	1HB	ASP A 119	1.401	-12.187	-6.232	1.00	0.00
ATOM 1840	2HB	ASP A 119	2.291	-10.871	-6.989	1.00	0.00
ATOM 1841	N	ARG A 120	4.989	-10.121	-5.250	1.00	0.00
ATOM 1842	CA	ARG A 120	5.864	-8.963	-5.396	1.00	0.00
ATOM 1843	C	ARG A 120	6.010	-8.575	-6.863	1.00	0.00
ATOM 1844	O	ARG A 120	5.993	-7.393	-7.209	1.00	0.00
ATOM 1845	CB	ARG A 120	7.241	-9.257	-4.798	1.00	0.00
ATOM 1846	CG	ARG A 120	8.181	-8.061	-4.821	1.00	0.00
ATOM 1847	CD	ARG A 120	9.542	-8.429	-5.390	1.00	0.00
ATOM 1848	NE	ARG A 120	10.529	-7.375	-5.173	1.00	0.00
ATOM 1849	CZ	ARG A 120	11.773	-7.415	-5.646	1.00	0.00
ATOM 1850	NH1	ARG A 120	12.186	-8.453	-6.363	1.00	0.00
ATOM 1851	NH2	ARG A 120	12.608	-6.413	-5.403	1.00	0.00
ATOM 1852	H	ARG A 120	5.379	-11.020	-5.260	1.00	0.00
ATOM 1853	HA	ARG A 120	5.417	-8.140	-4.860	1.00	0.00
ATOM 1854	1HB	ARG A 120	7.116	-9.569	-3.771	1.00	0.00
ATOM 1855	2HB	ARG A 120	7.700	-10.060	-5.356	1.00	0.00
ATOM 1856	1HG	ARG A 120	7.746	-7.284	-5.432	1.00	0.00
ATOM 1857	2HG	ARG A 120	8.310	-7.697	-3.812	1.00	0.00
ATOM 1858	1HD	ARG A 120	9.885	-9.335	-4.913	1.00	0.00
ATOM 1859	2HD	ARG A 120	9.438	-8.601	-6.453	1.00	0.00
ATOM 1860	HE	ARG A 120	10.252	-6.596	-4.647	1.00	0.00
ATOM 1861	1HH1	ARG A 120	11.561	-9.212	-6.550	1.00	0.00
ATOM 1862	2HH1	ARG A 120	13.121	-8.477	-6.715	1.00	0.00
ATOM 1863	1HH2	ARG A 120	12.303	-5.628	-4.863	1.00	0.00

ATOM 1864	2HH2	ARG	A	120	13.542	-6.443	-5.757	1.00	0.00
ATOM 1865	N	LYS	A	121	6.157	-9.578	-7.722	1.00	0.00
ATOM 1866	CA	LYS	A	121	6.309	-9.347	-9.153	1.00	0.00
ATOM 1867	C	LYS	A	121	5.066	-8.680	-9.734	1.00	0.00
ATOM 1868	O	LYS	A	121	5.153	-7.896	-10.679	1.00	0.00
ATOM 1869	CB	LYS	A	121	6.578	-10.668	-9.879	1.00	0.00
ATOM 1870	CG	LYS	A	121	7.746	-11.453	-9.304	1.00	0.00
ATOM 1871	CD	LYS	A	121	9.074	-10.764	-9.581	1.00	0.00
ATOM 1872	CE	LYS	A	121	9.898	-11.532	-10.601	1.00	0.00
ATOM 1873	NZ	LYS	A	121	9.770	-10.956	-11.968	1.00	0.00
ATOM 1874	H	LYS	A	121	6.164	-10.498	-7.383	1.00	0.00
ATOM 1875	HA	LYS	A	121	7.154	-8.691	-9.295	1.00	0.00
ATOM 1876	1HB	LYS	A	121	5.693	-11.285	-9.818	1.00	0.00
ATOM 1877	2HB	LYS	A	121	6.789	-10.458	-10.917	1.00	0.00
ATOM 1878	1HG	LYS	A	121	7.616	-11.541	-8.236	1.00	0.00
ATOM 1879	2HG	LYS	A	121	7.760	-12.436	-9.749	1.00	0.00
ATOM 1880	1HD	LYS	A	121	8.882	-9.772	-9.962	1.00	0.00
ATOM 1881	2HD	LYS	A	121	9.632	-10.696	-8.659	1.00	0.00
ATOM 1882	1HE	LYS	A	121	10.936	-11.502	-10.304	1.00	0.00
ATOM 1883	2HE	LYS	A	121	9.560	-12.558	-10.620	1.00	0.00
ATOM 1884	1HZ	LYS	A	121	10.677	-11.025	-12.472	1.00	0.00
ATOM 1885	2HZ	LYS	A	121	9.495	-9.954	-11.909	1.00	0.00
ATOM 1886	3HZ	LYS	A	121	9.045	-11.471	-12.507	1.00	0.00
ATOM 1887	N	SER	A	122	3.908	-8.997	-9.162	1.00	0.00
ATOM 1888	CA	SER	A	122	2.646	-8.430	-9.623	1.00	0.00
ATOM 1889	C	SER	A	122	2.538	-6.954	-9.249	1.00	0.00
ATOM 1890	O	SER	A	122	1.845	-6.185	-9.914	1.00	0.00

ATOM 1891	CB	SER A 122	1.469	-9.206	-9.031	1.00	0.00
ATOM 1892	OG	SER A 122	1.331	-8.948	-7.645	1.00	0.00
ATOM 1893	H	SER A 122	3.903	-9.628	-8.413	1.00	0.00
ATOM 1894	HA	SER A 122	2.618	-8.518	-10.699	1.00	0.00
ATOM 1895	1HB	SER A 122	0.558	-8.911	-9.532	1.00	0.00
ATOM 1896	2HB	SER A 122	1.631	-10.265	-9.174	1.00	0.00
ATOM 1897	HG	SER A 122	0.745	-9.600	-7.254	1.00	0.00
ATOM 1898	N	VAL A 123	3.224	-6.566	-8.179	1.00	0.00
ATOM 1899	CA	VAL A 123	3.201	-5.182	-7.717	1.00	0.00
ATOM 1900	C	VAL A 123	3.706	-4.234	-8.799	1.00	0.00
ATOM 1901	O	VAL A 123	4.533	-4.608	-9.630	1.00	0.00
ATOM 1902	CB	VAL A 123	4.055	-4.996	-6.450	1.00	0.00
ATOM 1903	CG1	VAL A 123	3.841	-3.610	-5.860	1.00	0.00
ATOM 1904	CG2	VAL A 123	3.735	-6.074	-5.426	1.00	0.00
ATOM 1905	H	VAL A 123	3.757	-7.224	-7.687	1.00	0.00
ATOM 1906	HA	VAL A 123	2.178	-4.928	-7.478	1.00	0.00
ATOM 1907	HB	VAL A 123	5.096	-5.088	-6.725	1.00	0.00
ATOM 1908	1HG1	VAL A 123	2.868	-3.242	-6.150	1.00	0.00
ATOM 1909	2HG1	VAL A 123	4.603	-2.940	-6.229	1.00	0.00
ATOM 1910	3HG1	VAL A 123	3.900	-3.664	-4.784	1.00	0.00
ATOM 1911	1HG2	VAL A 123	4.128	-7.021	-5.766	1.00	0.00
ATOM 1912	2HG2	VAL A 123	2.665	-6.152	-5.308	1.00	0.00
ATOM 1913	3HG2	VAL A 123	4.184	-5.816	-4.479	1.00	0.00
ATOM 1914	N	PHE A 124	3.203	-3.004	-8.782	1.00	0.00
ATOM 1915	CA	PHE A 124	3.604	-2.001	-9.761	1.00	0.00
ATOM 1916	C	PHE A 124	2.991	-0.645	-9.429	1.00	0.00
ATOM 1917	O	PHE A 124	1.844	-0.563	-8.990	1.00	0.00

ATOM	1918	CB	PHE A 124	3.185	-2.434	-11.168	1.00	0.00
ATOM	1919	CG	PHE A 124	3.758	-1.572	-12.257	1.00	0.00
ATOM	1920	CD1	PHE A 124	3.320	-0.269	-12.430	1.00	0.00
ATOM	1921	CD2	PHE A 124	4.736	-2.065	-13.106	1.00	0.00
ATOM	1922	CE1	PHE A 124	3.845	0.527	-13.431	1.00	0.00
ATOM	1923	CE2	PHE A 124	5.265	-1.274	-14.109	1.00	0.00
ATOM	1924	CZ	PHE A 124	4.819	0.023	-14.271	1.00	0.00
ATOM	1925	H	PHE A 124	2.547	-2.764	-8.093	1.00	0.00
ATOM	1926	HA	PHE A 124	4.680	-1.915	-9.725	1.00	0.00
ATOM	1927	1HB	PHE A 124	3.515	-3.447	-11.338	1.00	0.00
ATOM	1928	2HB	PHE A 124	2.108	-2.394	-11.243	1.00	0.00
ATOM	1929	HD1	PHE A 124	2.559	0.125	-11.772	1.00	0.00
ATOM	1930	HD2	PHE A 124	5.086	-3.079	-12.980	1.00	0.00
ATOM	1931	HE1	PHE A 124	3.494	1.540	-13.556	1.00	0.00
ATOM	1932	HE2	PHE A 124	6.026	-1.670	-14.765	1.00	0.00
ATOM	1933	HZ	PHE A 124	5.231	0.643	-15.054	1.00	0.00
ATOM	1934	N	VAL A 125	3.761	0.417	-9.640	1.00	0.00
ATOM	1935	CA	VAL A 125	3.286	1.766	-9.361	1.00	0.00
ATOM	1936	C	VAL A 125	3.714	2.740	-10.455	1.00	0.00
ATOM	1937	O	VAL A 125	4.903	2.891	-10.736	1.00	0.00
ATOM	1938	CB	VAL A 125	3.801	2.273	-7.999	1.00	0.00
ATOM	1939	CG1	VAL A 125	5.317	2.394	-8.006	1.00	0.00
ATOM	1940	CG2	VAL A 125	3.152	3.604	-7.643	1.00	0.00
ATOM	1941	H	VAL A 125	4.667	0.290	-9.991	1.00	0.00
ATOM	1942	HA	VAL A 125	2.208	1.736	-9.324	1.00	0.00
ATOM	1943	HB	VAL A 125	3.526	1.552	-7.244	1.00	0.00
ATOM	1944	1HG1	VAL A 125	5.601	3.337	-8.453	1.00	0.00

ATOM 1945	2HG1	VAL	A	125	5.741	1.583	-8.580	1.00	0.00
ATOM 1946	3HG1	VAL	A	125	5.687	2.351	-6.993	1.00	0.00
ATOM 1947	1HG2	VAL	A	125	3.902	4.281	-7.262	1.00	0.00
ATOM 1948	2HG2	VAL	A	125	2.394	3.445	-6.890	1.00	0.00
ATOM 1949	3HG2	VAL	A	125	2.698	4.030	-8.526	1.00	0.00
ATOM 1950	N	ASP	A	126	2.736	3.398	-11.068	1.00	0.00
ATOM 1951	CA	ASP	A	126	3.008	4.359	-12.131	1.00	0.00
ATOM 1952	C	ASP	A	126	2.735	5.783	-11.661	1.00	0.00
ATOM 1953	O	ASP	A	126	2.049	5.996	-10.660	1.00	0.00
ATOM 1954	CB	ASP	A	126	2.158	4.044	-13.363	1.00	0.00
ATOM 1955	CG	ASP	A	126	2.799	4.526	-14.649	1.00	0.00
ATOM 1956	OD1	ASP	A	126	3.036	5.746	-14.775	1.00	0.00
ATOM 1957	OD2	ASP	A	126	3.067	3.682	-15.531	1.00	0.00
ATOM 1958	H	ASP	A	126	1.807	3.236	-10.799	1.00	0.00
ATOM 1959	HA	ASP	A	126	4.052	4.275	-12.395	1.00	0.00
ATOM 1960	1HB	ASP	A	126	2.015	2.976	-13.431	1.00	0.00
ATOM 1961	2HB	ASP	A	126	1.195	4.525	-13.260	1.00	0.00
ATOM 1962	N	SER	A	127	3.272	6.756	-12.388	1.00	0.00
ATOM 1963	CA	SER	A	127	3.084	8.160	-12.044	1.00	0.00
ATOM 1964	C	SER	A	127	1.765	8.684	-12.602	1.00	0.00
ATOM 1965	O	SER	A	127	1.566	8.730	-13.815	1.00	0.00
ATOM 1966	CB	SER	A	127	4.248	8.997	-12.580	1.00	0.00
ATOM 1967	OG	SER	A	127	4.126	10.353	-12.183	1.00	0.00
ATOM 1968	H	SER	A	127	3.808	6.524	-13.175	1.00	0.00
ATOM 1969	HA	SER	A	127	3.062	8.238	-10.968	1.00	0.00
ATOM 1970	1HB	SER	A	127	5.177	8.606	-12.195	1.00	0.00
ATOM 1971	2HB	SER	A	127	4.256	8.950	-13.659	1.00	0.00

ATOM 1972	HG	SER A 127	4.242	10.922	-12.947	1.00	0.00
ATOM 1973	N	GLY A 128	0.865	9.079	-11.706	1.00	0.00
ATOM 1974	CA	GLY A 128	-0.424	9.596	-12.128	1.00	0.00
ATOM 1975	C	GLY A 128	-0.299	10.862	-12.956	1.00	0.00
ATOM 1976	O	GLY A 128	-0.677	10.879	-14.127	1.00	0.00
ATOM 1977	H	GLY A 128	1.079	9.020	-10.751	1.00	0.00
ATOM 1978	1HA	GLY A 128	-0.925	8.842	-12.715	1.00	0.00
ATOM 1979	2HA	GLY A 128	-1.018	9.809	-11.252	1.00	0.00
ATOM 1980	N	PRO A 129	0.233	11.946	-12.368	1.00	0.00
ATOM 1981	CA	PRO A 129	0.403	13.224	-13.069	1.00	0.00
ATOM 1982	C	PRO A 129	1.453	13.142	-14.173	1.00	0.00
ATOM 1983	O	PRO A 129	2.654	13.141	-13.903	1.00	0.00
ATOM 1984	CB	PRO A 129	0.862	14.180	-11.965	1.00	0.00
ATOM 1985	CG	PRO A 129	1.483	13.300	-10.935	1.00	0.00
ATOM 1986	CD	PRO A 129	0.710	12.012	-10.975	1.00	0.00
ATOM 1987	HA	PRO A 129	-0.529	13.572	-13.487	1.00	0.00
ATOM 1988	1HB	PRO A 129	1.578	14.882	-12.369	1.00	0.00
ATOM 1989	2HB	PRO A 129	0.011	14.711	-11.569	1.00	0.00
ATOM 1990	1HG	PRO A 129	2.520	13.125	-11.179	1.00	0.00
ATOM 1991	2HG	PRO A 129	1.397	13.758	-9.961	1.00	0.00
ATOM 1992	1HD	PRO A 129	1.357	11.176	-10.749	1.00	0.00
ATOM 1993	2HD	PRO A 129	-0.118	12.047	-10.285	1.00	0.00
ATOM 1994	N	SER A 130	0.992	13.074	-15.417	1.00	0.00
ATOM 1995	CA	SER A 130	1.891	12.994	-16.563	1.00	0.00
ATOM 1996	C	SER A 130	1.119	13.131	-17.871	1.00	0.00
ATOM 1997	O	SER A 130	0.778	12.135	-18.510	1.00	0.00
ATOM 1998	CB	SER A 130	2.656	11.670	-16.546	1.00	0.00

ATOM	1999	OG	SER A 130	1.793	10.584	-16.258	1.00	0.00
ATOM	2000	H	SER A 130	0.024	13.079	-15.570	1.00	0.00
ATOM	2001	HA	SER A 130	2.596	13.807	-16.488	1.00	0.00
ATOM	2002	1HB	SER A 130	3.110	11.506	-17.512	1.00	0.00
ATOM	2003	2HB	SER A 130	3.427	11.712	-15.790	1.00	0.00
ATOM	2004	HG	SER A 130	1.123	10.517	-16.943	1.00	0.00
ATOM	2005	N	SER A 131	0.847	14.371	-18.263	1.00	0.00
ATOM	2006	CA	SER A 131	0.116	14.640	-19.495	1.00	0.00
ATOM	2007	C	SER A 131	0.543	15.972	-20.101	1.00	0.00
ATOM	2008	O	SER A 131	0.154	17.037	-19.621	1.00	0.00
ATOM	2009	CB	SER A 131	-1.390	14.649	-19.226	1.00	0.00
ATOM	2010	OG	SER A 131	-1.765	15.778	-18.458	1.00	0.00
ATOM	2011	H	SER A 131	1.146	15.123	-17.711	1.00	0.00
ATOM	2012	HA	SER A 131	0.344	13.850	-20.195	1.00	0.00
ATOM	2013	1HB	SER A 131	-1.921	14.676	-20.166	1.00	0.00
ATOM	2014	2HB	SER A 131	-1.662	13.754	-18.685	1.00	0.00
ATOM	2015	HG	SER A 131	-1.175	15.864	-17.706	1.00	0.00
ATOM	2016	N	GLY A 132	1.347	15.906	-21.158	1.00	0.00
ATOM	2017	CA	GLY A 132	1.815	17.114	-21.811	1.00	0.00
ATOM	2018	C	GLY A 132	0.843	17.621	-22.858	1.00	0.00
ATOM	2019	H	GLY A 132	1.625	15.029	-21.496	1.00	0.00
ATOM	2020	1HA	GLY A 132	1.953	17.883	-21.064	1.00	0.00
ATOM	2021	2HA	GLY A 132	2.764	16.911	-22.284	1.00	0.00
TER	2022		GLY A 132					

ENDMDL

Three-Dimensional Structure Coordinate 10



ATOM 1	N	GLY A	1	-7.066	5.639	-18.859	1.00	0.00
ATOM 2	CA	GLY A	1	-6.513	6.402	-20.013	1.00	0.00
ATOM 3	C	GLY A	1	-6.738	7.895	-19.882	1.00	0.00
ATOM 4	O	GLY A	1	-6.936	8.591	-20.878	1.00	0.00
ATOM 5	1H	GLY A	1	-6.452	5.757	-18.027	1.00	0.00
ATOM 6	2H	GLY A	1	-7.123	4.628	-19.094	1.00	0.00
ATOM 7	3H	GLY A	1	-8.018	5.984	-18.626	1.00	0.00
ATOM 8	1HA	GLY A	1	-5.452	6.213	-20.081	1.00	0.00
ATOM 9	2HA	GLY A	1	-6.988	6.056	-20.920	1.00	0.00
ATOM 10	N	SER A	2	-6.707	8.391	-18.648	1.00	0.00
ATOM 11	CA	SER A	2	-6.910	9.811	-18.389	1.00	0.00
ATOM 12	C	SER A	2	-5.617	10.467	-17.914	1.00	0.00
ATOM 13	O	SER A	2	-5.634	11.336	-17.043	1.00	0.00
ATOM 14	CB	SER A	2	-8.010	10.009	-17.345	1.00	0.00
ATOM 15	OG	SER A	2	-7.742	9.257	-16.173	1.00	0.00
ATOM 16	H	SER A	2	-6.545	7.786	-17.895	1.00	0.00
ATOM 17	HA	SER A	2	-7.216	10.276	-19.314	1.00	0.00
ATOM 18	1HB	SER A	2	-8.070	11.054	-17.081	1.00	0.00
ATOM 19	2HB	SER A	2	-8.955	9.687	-17.756	1.00	0.00
ATOM 20	HG	SER A	2	-8.515	9.267	-15.603	1.00	0.00
ATOM 21	N	SER A	3	-4.498	10.045	-18.494	1.00	0.00
ATOM 22	CA	SER A	3	-3.196	10.591	-18.130	1.00	0.00
ATOM 23	C	SER A	3	-2.837	11.780	-19.017	1.00	0.00
ATOM 24	O	SER A	3	-2.285	11.611	-20.104	1.00	0.00
ATOM 25	CB	SER A	3	-2.117	9.513	-18.242	1.00	0.00
ATOM 26	OG	SER A	3	-2.273	8.757	-19.431	1.00	0.00
ATOM 27	H	SER A	3	-4.549	9.351	-19.183	1.00	0.00

ATOM 28	HA	SER A	3	-3.252	10.927	-17.106	1.00	0.00
ATOM 29	1HB	SER A	3	-1.143	9.980	-18.253	1.00	0.00
ATOM 30	2HB	SER A	3	-2.188	8.847	-17.394	1.00	0.00
ATOM 31	HG	SER A	3	-1.532	8.154	-19.526	1.00	0.00
ATOM 32	N	GLY A	4	-3.156	12.981	-18.546	1.00	0.00
ATOM 33	CA	GLY A	4	-2.859	14.179	-19.309	1.00	0.00
ATOM 34	C	GLY A	4	-3.981	15.197	-19.248	1.00	0.00
ATOM 35	O	GLY A	4	-4.701	15.397	-20.228	1.00	0.00
ATOM 36	H	GLY A	4	-3.595	13.054	-17.673	1.00	0.00
ATOM 37	1HA	GLY A	4	-1.959	14.629	-18.917	1.00	0.00
ATOM 38	2HA	GLY A	4	-2.693	13.905	-20.340	1.00	0.00
ATOM 39	N	SER A	5	-4.132	15.841	-18.096	1.00	0.00
ATOM 40	CA	SER A	5	-5.175	16.844	-17.910	1.00	0.00
ATOM 41	C	SER A	5	-4.569	18.232	-17.725	1.00	0.00
ATOM 42	O	SER A	5	-3.352	18.380	-17.620	1.00	0.00
ATOM 43	CB	SER A	5	-6.043	16.489	-16.703	1.00	0.00
ATOM 44	OG	SER A	5	-7.074	17.443	-16.517	1.00	0.00
ATOM 45	H	SER A	5	-3.527	15.638	-17.352	1.00	0.00
ATOM 46	HA	SER A	5	-5.791	16.849	-18.796	1.00	0.00
ATOM 47	1HB	SER A	5	-6.492	15.519	-16.856	1.00	0.00
ATOM 48	2HB	SER A	5	-5.428	16.464	-15.815	1.00	0.00
ATOM 49	HG	SER A	5	-7.912	17.070	-16.802	1.00	0.00
ATOM 50	N	SER A	6	-5.427	19.246	-17.687	1.00	0.00
ATOM 51	CA	SER A	6	-4.977	20.623	-17.514	1.00	0.00
ATOM 52	C	SER A	6	-4.566	20.883	-16.068	1.00	0.00
ATOM 53	O	SER A	6	-5.414	21.060	-15.194	1.00	0.00
ATOM 54	CB	SER A	6	-6.080	21.598	-17.926	1.00	0.00

ATOM 55	OG	SER A	6	-5.541	22.734	-18.579	1.00	0.00
ATOM 56	H	SER A	6	-6.386	19.065	-17.776	1.00	0.00
ATOM 57	HA	SER A	6	-4.119	20.773	-18.153	1.00	0.00
ATOM 58	1HB	SER A	6	-6.763	21.102	-18.600	1.00	0.00
ATOM 59	2HB	SER A	6	-6.616	21.924	-17.046	1.00	0.00
ATOM 60	HG	SER A	6	-6.201	23.430	-18.610	1.00	0.00
ATOM 61	N	GLY A	7	-3.259	20.903	-15.825	1.00	0.00
ATOM 62	CA	GLY A	7	-2.759	21.142	-14.484	1.00	0.00
ATOM 63	C	GLY A	7	-1.617	20.215	-14.117	1.00	0.00
ATOM 64	O	GLY A	7	-1.801	19.001	-14.020	1.00	0.00
ATOM 65	H	GLY A	7	-2.630	20.754	-16.561	1.00	0.00
ATOM 66	1HA	GLY A	7	-2.414	22.163	-14.417	1.00	0.00
ATOM 67	2HA	GLY A	7	-3.565	20.998	-13.780	1.00	0.00
ATOM 68	N	SER A	8	-0.435	20.786	-13.911	1.00	0.00
ATOM 69	CA	SER A	8	0.741	20.002	-13.552	1.00	0.00
ATOM 70	C	SER A	8	1.444	20.601	-12.338	1.00	0.00
ATOM 71	O	SER A	8	1.003	21.610	-11.788	1.00	0.00
ATOM 72	CB	SER A	8	1.711	19.928	-14.733	1.00	0.00
ATOM 73	OG	SER A	8	2.424	18.705	-14.731	1.00	0.00
ATOM 74	H	SER A	8	-0.353	21.758	-14.003	1.00	0.00
ATOM 75	HA	SER A	8	0.411	19.004	-13.306	1.00	0.00
ATOM 76	1HB	SER A	8	1.157	20.006	-15.656	1.00	0.00
ATOM 77	2HB	SER A	8	2.416	20.743	-14.667	1.00	0.00
ATOM 78	HG	SER A	8	1.833	17.989	-14.973	1.00	0.00
ATOM 79	N	SER A	9	2.540	19.973	-11.927	1.00	0.00
ATOM 80	CA	SER A	9	3.305	20.444	-10.778	1.00	0.00
ATOM 81	C	SER A	9	2.450	20.435	-9.515	1.00	0.00

ATOM 82	O	SER A	9	1.231	20.274	-9.579	1.00	0.00
ATOM 83	CB	SER A	9	3.838	21.854	-11.038	1.00	0.00
ATOM 84	OG	SER A	9	4.435	22.396	-9.872	1.00	0.00
ATOM 85	H	SER A	9	2.841	19.173	-12.406	1.00	0.00
ATOM 86	HA	SER A	9	4.140	19.772	-10.638	1.00	0.00
ATOM 87	1HB	SER A	9	4.579	21.817	-11.822	1.00	0.00
ATOM 88	2HB	SER A	9	3.023	22.494	-11.341	1.00	0.00
ATOM 89	HG	SER A	9	5.365	22.563	-10.038	1.00	0.00
ATOM 90	N	SER A	10	3.098	20.608	-8.366	1.00	0.00
ATOM 91	CA	SER A	10	2.399	20.622	-7.087	1.00	0.00
ATOM 92	C	SER A	10	1.725	19.280	-6.820	1.00	0.00
ATOM 93	O	SER A	10	0.852	18.851	-7.574	1.00	0.00
ATOM 94	CB	SER A	10	1.357	21.741	-7.061	1.00	0.00
ATOM 95	OG	SER A	10	1.754	22.828	-7.881	1.00	0.00
ATOM 96	H	SER A	10	4.071	20.732	-8.381	1.00	0.00
ATOM 97	HA	SER A	10	3.129	20.805	-6.313	1.00	0.00
ATOM 98	1HB	SER A	10	0.413	21.361	-7.424	1.00	0.00
ATOM 99	2HB	SER A	10	1.237	22.096	-6.047	1.00	0.00
ATOM 100	HG	SER A	10	0.982	23.340	-8.131	1.00	0.00
ATOM 101	N	SER A	11	2.138	18.619	-5.742	1.00	0.00
ATOM 102	CA	SER A	11	1.576	17.325	-5.376	1.00	0.00
ATOM 103	C	SER A	11	1.821	16.295	-6.473	1.00	0.00
ATOM 104	O	SER A	11	2.098	16.648	-7.619	1.00	0.00
ATOM 105	CB	SER A	11	0.075	17.456	-5.108	1.00	0.00
ATOM 106	OG	SER A	11	-0.179	18.366	-4.051	1.00	0.00
ATOM 107	H	SER A	11	2.838	19.014	-5.180	1.00	0.00
ATOM 108	HA	SER A	11	2.066	16.995	-4.472	1.00	0.00

ATOM 109	1HB	SER A	11	-0.419	17.812	-5.999	1.00	0.00
ATOM 110	2HB	SER A	11	-0.325	16.489	-4.837	1.00	0.00
ATOM 111	N	GLN A	12	1.717	15.020	-6.113	1.00	0.00
ATOM 112	CA	GLN A	12	1.928	13.937	-7.068	1.00	0.00
ATOM 113	C	GLN A	12	0.996	12.765	-6.780	1.00	0.00
ATOM 114	O	GLN A	12	0.508	12.606	-5.661	1.00	0.00
ATOM 115	CB	GLN A	12	3.384	13.467	-7.031	1.00	0.00
ATOM 116	CG	GLN A	12	3.987	13.449	-5.634	1.00	0.00
ATOM 117	CD	GLN A	12	5.068	14.495	-5.453	1.00	0.00
ATOM 118	OE1	GLN A	12	4.808	15.597	-4.969	1.00	0.00
ATOM 119	NE2	GLN A	12	6.291	14.155	-5.842	1.00	0.00
ATOM 120	H	GLN A	12	1.493	14.801	-5.184	1.00	0.00
ATOM 121	HA	GLN A	12	1.709	14.320	-8.054	1.00	0.00
ATOM 122	1HB	GLN A	12	3.436	12.465	-7.434	1.00	0.00
ATOM 123	2HB	GLN A	12	3.979	14.124	-7.648	1.00	0.00
ATOM 124	1HG	GLN A	12	3.202	13.637	-4.917	1.00	0.00
ATOM 125	2HG	GLN A	12	4.414	12.474	-5.453	1.00	0.00
ATOM 126	1HE2	GLN A	12	6.425	13.261	-6.219	1.00	0.00
ATOM 127	2HE2	GLN A	12	7.010	14.813	-5.736	1.00	0.00
ATOM 128	N	HIS A	13	0.754	11.949	-7.800	1.00	0.00
ATOM 129	CA	HIS A	13	-0.120	10.789	-7.664	1.00	0.00
ATOM 130	C	HIS A	13	0.472	9.579	-8.380	1.00	0.00
ATOM 131	O	HIS A	13	0.569	9.559	-9.607	1.00	0.00
ATOM 132	CB	HIS A	13	-1.507	11.107	-8.229	1.00	0.00
ATOM 133	CG	HIS A	13	-2.241	12.154	-7.452	1.00	0.00
ATOM 134	ND1	HIS A	13	-3.441	11.917	-6.815	1.00	0.00
ATOM 135	CD2	HIS A	13	-1.938	13.452	-7.208	1.00	0.00

ATOM 136	CE1	HIS A	13	-3.845	13.023	-6.215	1.00	0.00
ATOM 137	NE2	HIS A	13	-2.950	13.968	-6.437	1.00	0.00
ATOM 138	H	HIS A	13	1.173	12.130	-8.666	1.00	0.00
ATOM 139	HA	HIS A	13	-0.211	10.563	-6.613	1.00	0.00
ATOM 140	1HB	HIS A	13	-1.401	11.460	-9.244	1.00	0.00
ATOM 141	2HB	HIS A	13	-2.105	10.209	-8.227	1.00	0.00
ATOM 142	HD1	HIS A	13	-3.925	11.065	-6.805	1.00	0.00
ATOM 143	HD2	HIS A	13	-1.062	13.981	-7.554	1.00	0.00
ATOM 144	HE1	HIS A	13	-4.752	13.134	-5.638	1.00	0.00
ATOM 145	HE2	HIS A	13	-3.046	14.908	-6.178	1.00	0.00
ATOM 146	N	PHE A	14	0.868	8.570	-7.607	1.00	0.00
ATOM 147	CA	PHE A	14	1.450	7.358	-8.174	1.00	0.00
ATOM 148	C	PHE A	14	0.464	6.197	-8.106	1.00	0.00
ATOM 149	O	PHE A	14	0.056	5.776	-7.024	1.00	0.00
ATOM 150	CB	PHE A	14	2.743	6.993	-7.442	1.00	0.00
ATOM 151	CG	PHE A	14	3.674	8.157	-7.251	1.00	0.00
ATOM 152	CD1	PHE A	14	3.715	8.839	-6.044	1.00	0.00
ATOM 153	CD2	PHE A	14	4.508	8.570	-8.279	1.00	0.00
ATOM 154	CE1	PHE A	14	4.571	9.910	-5.867	1.00	0.00
ATOM 155	CE2	PHE A	14	5.365	9.640	-8.106	1.00	0.00
ATOM 156	CZ	PHE A	14	5.397	10.311	-6.899	1.00	0.00
ATOM 157	H	PHE A	14	0.765	8.643	-6.635	1.00	0.00
ATOM 158	HA	PHE A	14	1.679	7.557	-9.211	1.00	0.00
ATOM 159	1HB	PHE A	14	2.499	6.599	-6.468	1.00	0.00
ATOM 160	2HB	PHE A	14	3.268	6.237	-8.009	1.00	0.00
ATOM 161	HD1	PHE A	14	3.071	8.526	-5.237	1.00	0.00
ATOM 162	HD2	PHE A	14	4.484	8.046	-9.223	1.00	0.00

ATOM 163	HE1	PHE A	14	4.593	10.433	-4.923	1.00	0.00
ATOM 164	HE2	PHE A	14	6.010	9.951	-8.915	1.00	0.00
ATOM 165	HZ	PHE A	14	6.066	11.147	-6.763	1.00	0.00
ATOM 166	N	ASN A	15	0.079	5.690	-9.273	1.00	0.00
ATOM 167	CA	ASN A	15	-0.866	4.582	-9.357	1.00	0.00
ATOM 168	C	ASN A	15	-0.351	3.348	-8.621	1.00	0.00
ATOM 169	O	ASN A	15	0.572	2.677	-9.083	1.00	0.00
ATOM 170	CB	ASN A	15	-1.142	4.236	-10.823	1.00	0.00
ATOM 171	CG	ASN A	15	-2.491	4.745	-11.294	1.00	0.00
ATOM 172	OD1	ASN A	15	-2.875	5.878	-11.006	1.00	0.00
ATOM 173	ND2	ASN A	15	-3.217	3.907	-12.023	1.00	0.00
ATOM 174	H	ASN A	15	0.438	6.074	-10.100	1.00	0.00
ATOM 175	HA	ASN A	15	-1.788	4.900	-8.895	1.00	0.00
ATOM 176	1HB	ASN A	15	-0.376	4.681	-11.441	1.00	0.00
ATOM 177	2HB	ASN A	15	-1.119	3.163	-10.946	1.00	0.00
ATOM 178	1HD2	ASN A	15	-2.847	3.019	-12.215	1.00	0.00
ATOM 179	2HD2	ASN A	15	-4.093	4.209	-12.342	1.00	0.00
ATOM 180	N	LEU A	16	-0.964	3.047	-7.478	1.00	0.00
ATOM 181	CA	LEU A	16	-0.580	1.886	-6.684	1.00	0.00
ATOM 182	C	LEU A	16	-1.341	0.649	-7.152	1.00	0.00
ATOM 183	O	LEU A	16	-2.563	0.681	-7.292	1.00	0.00
ATOM 184	CB	LEU A	16	-0.862	2.140	-5.202	1.00	0.00
ATOM 185	CG	LEU A	16	-0.150	1.194	-4.233	1.00	0.00
ATOM 186	CD1	LEU A	16	1.361	1.345	-4.348	1.00	0.00
ATOM 187	CD2	LEU A	16	-0.606	1.453	-2.805	1.00	0.00
ATOM 188	H	LEU A	16	-1.700	3.617	-7.166	1.00	0.00
ATOM 189	HA	LEU A	16	0.477	1.721	-6.822	1.00	0.00

ATOM 190	1HB	LEU	A	16	-0.566	3.151	-4.970	1.00	0.00
ATOM 191	2HB	LEU	A	16	-1.925	2.051	-5.040	1.00	0.00
ATOM 192	HG	LEU	A	16	-0.401	0.174	-4.486	1.00	0.00
ATOM 193	1HD1	LEU	A	16	1.600	1.947	-5.212	1.00	0.00
ATOM 194	2HD1	LEU	A	16	1.813	0.370	-4.452	1.00	0.00
ATOM 195	3HD1	LEU	A	16	1.744	1.825	-3.458	1.00	0.00
ATOM 196	1HD2	LEU	A	16	0.135	1.078	-2.116	1.00	0.00
ATOM 197	2HD2	LEU	A	16	-1.547	0.950	-2.631	1.00	0.00
ATOM 198	3HD2	LEU	A	16	-0.733	2.516	-2.656	1.00	0.00
ATOM 199	N	ASN	A	17	-0.616	-0.438	-7.399	1.00	0.00
ATOM 200	CA	ASN	A	17	-1.240	-1.673	-7.857	1.00	0.00
ATOM 201	C	ASN	A	17	-0.483	-2.900	-7.360	1.00	0.00
ATOM 202	O	ASN	A	17	0.748	-2.914	-7.323	1.00	0.00
ATOM 203	CB	ASN	A	17	-1.313	-1.693	-9.385	1.00	0.00
ATOM 204	CG	ASN	A	17	-2.114	-0.533	-9.941	1.00	0.00
ATOM 205	OD1	ASN	A	17	-3.277	-0.690	-10.314	1.00	0.00
ATOM 206	ND2	ASN	A	17	-1.496	0.641	-9.999	1.00	0.00
ATOM 207	H	ASN	A	17	0.355	-0.406	-7.274	1.00	0.00
ATOM 208	HA	ASN	A	17	-2.243	-1.701	-7.460	1.00	0.00
ATOM 209	1HB	ASN	A	17	-0.312	-1.640	-9.787	1.00	0.00
ATOM 210	2HB	ASN	A	17	-1.776	-2.615	-9.705	1.00	0.00
ATOM 211	1HD2	ASN	A	17	-0.569	0.691	-9.684	1.00	0.00
ATOM 212	2HD2	ASN	A	17	-1.991	1.409	-10.354	1.00	0.00
ATOM 213	N	PHE	A	18	-1.233	-3.933	-6.986	1.00	0.00
ATOM 214	CA	PHE	A	18	-0.647	-5.178	-6.498	1.00	0.00
ATOM 215	C	PHE	A	18	-1.738	-6.193	-6.171	1.00	0.00
ATOM 216	O	PHE	A	18	-2.525	-6.000	-5.244	1.00	0.00



ATOM 217	CB	PHE A	18	0.222	-4.921	-5.263	1.00	0.00
ATOM 218	CG	PHE A	18	-0.541	-4.404	-4.077	1.00	0.00
ATOM 219	CD1	PHE A	18	-0.903	-3.070	-4.000	1.00	0.00
ATOM 220	CD2	PHE A	18	-0.891	-5.253	-3.039	1.00	0.00
ATOM 221	CE1	PHE A	18	-1.601	-2.589	-2.908	1.00	0.00
ATOM 222	CE2	PHE A	18	-1.590	-4.779	-1.945	1.00	0.00
ATOM 223	CZ	PHE A	18	-1.945	-3.446	-1.879	1.00	0.00
ATOM 224	H	PHE A	18	-2.209	-3.858	-7.047	1.00	0.00
ATOM 225	HA	PHE A	18	-0.027	-5.579	-7.286	1.00	0.00
ATOM 226	1HB	PHE A	18	0.700	-5.844	-4.972	1.00	0.00
ATOM 227	2HB	PHE A	18	0.981	-4.194	-5.513	1.00	0.00
ATOM 228	HD1	PHE A	18	-0.635	-2.400	-4.803	1.00	0.00
ATOM 229	HD2	PHE A	18	-0.614	-6.296	-3.089	1.00	0.00
ATOM 230	HE1	PHE A	18	-1.876	-1.546	-2.858	1.00	0.00
ATOM 231	HE2	PHE A	18	-1.857	-5.450	-1.143	1.00	0.00
ATOM 232	HZ	PHE A	18	-2.490	-3.073	-1.024	1.00	0.00
ATOM 233	N	THR A	19	-1.784	-7.273	-6.947	1.00	0.00
ATOM 234	CA	THR A	19	-2.781	-8.318	-6.750	1.00	0.00
ATOM 235	C	THR A	19	-2.517	-9.099	-5.467	1.00	0.00
ATOM 236	O	THR A	19	-1.396	-9.541	-5.217	1.00	0.00
ATOM 237	CB	THR A	19	-2.791	-9.273	-7.945	1.00	0.00
ATOM 238	OG1	THR A	19	-2.980	-8.560	-9.155	1.00	0.00
ATOM 239	CG2	THR A	19	-3.874	-10.329	-7.860	1.00	0.00
ATOM 240	H	THR A	19	-1.132	-7.366	-7.674	1.00	0.00
ATOM 241	HA	THR A	19	-3.748	-7.842	-6.674	1.00	0.00
ATOM 242	HB	THR A	19	-1.839	-9.779	-7.996	1.00	0.00
ATOM 243	HG1	THR A	19	-3.879	-8.225	-9.194	1.00	0.00

ATOM 244	1HG2	THR	A	19	-4.768	-9.894	-7.439	1.00	0.00
ATOM 245	2HG2	THR	A	19	-3.537	-11.139	-7.231	1.00	0.00
ATOM 246	3HG2	THR	A	19	-4.089	-10.705	-8.849	1.00	0.00
ATOM 247	N	ILE	A	20	-3.560	-9.268	-4.660	1.00	0.00
ATOM 248	CA	ILE	A	20	-3.445	-10.000	-3.405	1.00	0.00
ATOM 249	C	ILE	A	20	-3.826	-11.465	-3.591	1.00	0.00
ATOM 250	O	ILE	A	20	-5.007	-11.806	-3.656	1.00	0.00
ATOM 251	CB	ILE	A	20	-4.335	-9.382	-2.309	1.00	0.00
ATOM 252	CG1	ILE	A	20	-4.074	-7.879	-2.199	1.00	0.00
ATOM 253	CG2	ILE	A	20	-4.088	-10.067	-0.973	1.00	0.00
ATOM 254	CD1	ILE	A	20	-5.098	-7.149	-1.355	1.00	0.00
ATOM 255	H	ILE	A	20	-4.428	-8.893	-4.918	1.00	0.00
ATOM 256	HA	ILE	A	20	-2.416	-9.944	-3.080	1.00	0.00
ATOM 257	HB	ILE	A	20	-5.367	-9.542	-2.583	1.00	0.00
ATOM 258	1HG1	ILE	A	20	-3.105	-7.720	-1.752	1.00	0.00
ATOM 259	2HG1	ILE	A	20	-4.086	-7.444	-3.187	1.00	0.00
ATOM 260	1HG2	ILE	A	20	-4.797	-9.703	-0.245	1.00	0.00
ATOM 261	2HG2	ILE	A	20	-3.085	-9.852	-0.638	1.00	0.00
ATOM 262	3HG2	ILE	A	20	-4.207	-11.135	-1.089	1.00	0.00
ATOM 263	1HD1	ILE	A	20	-4.941	-7.386	-0.314	1.00	0.00
ATOM 264	2HD1	ILE	A	20	-6.091	-7.455	-1.650	1.00	0.00
ATOM 265	3HD1	ILE	A	20	-4.991	-6.084	-1.501	1.00	0.00
ATOM 266	N	THR	A	21	-2.818	-12.326	-3.680	1.00	0.00
ATOM 267	CA	THR	A	21	-3.044	-13.757	-3.863	1.00	0.00
ATOM 268	C	THR	A	21	-3.950	-14.315	-2.769	1.00	0.00
ATOM 269	O	THR	A	21	-4.658	-15.299	-2.980	1.00	0.00
ATOM 270	CB	THR	A	21	-1.710	-14.506	-3.868	1.00	0.00

ATOM 271	OG1	THR	A	21	-0.998	-14.271	-2.666	1.00	0.00
ATOM 272	CG2	THR	A	21	-0.810	-14.117	-5.020	1.00	0.00
ATOM 273	H	THR	A	21	-1.898	-11.992	-3.623	1.00	0.00
ATOM 274	HA	THR	A	21	-3.527	-13.895	-4.818	1.00	0.00
ATOM 275	HB	THR	A	21	-1.906	-15.566	-3.944	1.00	0.00
ATOM 276	HG1	THR	A	21	-0.165	-14.748	-2.689	1.00	0.00
ATOM 277	1HG2	THR	A	21	0.069	-13.619	-4.638	1.00	0.00
ATOM 278	2HG2	THR	A	21	-1.342	-13.450	-5.683	1.00	0.00
ATOM 279	3HG2	THR	A	21	-0.515	-15.003	-5.562	1.00	0.00
ATOM 280	N	ASN	A	22	-3.922	-13.683	-1.600	1.00	0.00
ATOM 281	CA	ASN	A	22	-4.740	-14.120	-0.476	1.00	0.00
ATOM 282	C	ASN	A	22	-5.977	-13.238	-0.327	1.00	0.00
ATOM 283	O	ASN	A	22	-6.189	-12.615	0.714	1.00	0.00
ATOM 284	CB	ASN	A	22	-3.921	-14.097	0.817	1.00	0.00
ATOM 285	CG	ASN	A	22	-4.332	-15.192	1.781	1.00	0.00
ATOM 286	OD1	ASN	A	22	-4.606	-16.322	1.376	1.00	0.00
ATOM 287	ND2	ASN	A	22	-4.379	-14.861	3.066	1.00	0.00
ATOM 288	H	ASN	A	22	-3.337	-12.905	-1.490	1.00	0.00
ATOM 289	HA	ASN	A	22	-5.058	-15.133	-0.671	1.00	0.00
ATOM 290	1HB	ASN	A	22	-2.877	-14.229	0.577	1.00	0.00
ATOM 291	2HB	ASN	A	22	-4.057	-13.143	1.305	1.00	0.00
ATOM 292	1HD2	ASN	A	22	-4.149	-13.942	3.317	1.00	0.00
ATOM 293	2HD2	ASN	A	22	-4.642	-15.549	3.713	1.00	0.00
ATOM 294	N	LEU	A	23	-6.792	-13.191	-1.375	1.00	0.00
ATOM 295	CA	LEU	A	23	-8.009	-12.387	-1.361	1.00	0.00
ATOM 296	C	LEU	A	23	-8.967	-12.830	-2.466	1.00	0.00
ATOM 297	O	LEU	A	23	-8.922	-12.312	-3.581	1.00	0.00

ATOM 298	CB	LEU	A	23	-7.668	-10.905	-1.530	1.00	0.00
ATOM 299	CG	LEU	A	23	-8.641	-9.935	-0.858	1.00	0.00
ATOM 300	CD1	LEU	A	23	-9.987	-9.953	-1.565	1.00	0.00
ATOM 301	CD2	LEU	A	23	-8.806	-10.282	0.615	1.00	0.00
ATOM 302	H	LEU	A	23	-6.571	-13.710	-2.176	1.00	0.00
ATOM 303	HA	LEU	A	23	-8.489	-12.530	-0.406	1.00	0.00
ATOM 304	1HB	LEU	A	23	-6.682	-10.736	-1.121	1.00	0.00
ATOM 305	2HB	LEU	A	23	-7.644	-10.681	-2.586	1.00	0.00
ATOM 306	HG	LEU	A	23	-8.243	-8.933	-0.924	1.00	0.00
ATOM 307	1HD1	LEU	A	23	-10.372	-10.962	-1.580	1.00	0.00
ATOM 308	2HD1	LEU	A	23	-9.866	-9.598	-2.579	1.00	0.00
ATOM 309	3HD1	LEU	A	23	-10.679	-9.312	-1.039	1.00	0.00
ATOM 310	1HD2	LEU	A	23	-9.466	-11.131	0.712	1.00	0.00
ATOM 311	2HD2	LEU	A	23	-9.226	-9.436	1.139	1.00	0.00
ATOM 312	3HD2	LEU	A	23	-7.843	-10.525	1.036	1.00	0.00
ATOM 313	N	PRO	A	24	-9.851	-13.797	-2.166	1.00	0.00
ATOM 314	CA	PRO	A	24	-10.822	-14.306	-3.140	1.00	0.00
ATOM 315	C	PRO	A	24	-11.658	-13.192	-3.760	1.00	0.00
ATOM 316	O	PRO	A	24	-11.796	-12.112	-3.184	1.00	0.00
ATOM 317	CB	PRO	A	24	-11.708	-15.240	-2.310	1.00	0.00
ATOM 318	CG	PRO	A	24	-10.859	-15.645	-1.156	1.00	0.00
ATOM 319	CD	PRO	A	24	-9.974	-14.468	-0.859	1.00	0.00
ATOM 320	HA	PRO	A	24	-10.337	-14.868	-3.924	1.00	0.00
ATOM 321	1HB	PRO	A	24	-12.590	-14.708	-1.985	1.00	0.00
ATOM 322	2HB	PRO	A	24	-11.996	-16.093	-2.907	1.00	0.00
ATOM 323	1HG	PRO	A	24	-11.483	-15.871	-0.302	1.00	0.00
ATOM 324	2HG	PRO	A	24	-10.263	-16.505	-1.423	1.00	0.00

ATOM 325	1HD	PRO	A	24	-10.439	-13.818	-0.133	1.00	0.00
ATOM 326	2HD	PRO	A	24	-9.009	-14.802	-0.506	1.00	0.00
ATOM 327	N	TYR	A	25	-12.213	-13.460	-4.938	1.00	0.00
ATOM 328	CA	TYR	A	25	-13.036	-12.479	-5.636	1.00	0.00
ATOM 329	C	TYR	A	25	-14.473	-12.971	-5.769	1.00	0.00
ATOM 330	O	TYR	A	25	-14.861	-13.514	-6.803	1.00	0.00
ATOM 331	CB	TYR	A	25	-12.453	-12.188	-7.020	1.00	0.00
ATOM 332	CG	TYR	A	25	-12.861	-10.843	-7.579	1.00	0.00
ATOM 333	CD1	TYR	A	25	-14.049	-10.695	-8.285	1.00	0.00
ATOM 334	CD2	TYR	A	25	-12.058	-9.723	-7.401	1.00	0.00
ATOM 335	CE1	TYR	A	25	-14.424	-9.467	-8.798	1.00	0.00
ATOM 336	CE2	TYR	A	25	-12.428	-8.494	-7.911	1.00	0.00
ATOM 337	CZ	TYR	A	25	-13.610	-8.371	-8.609	1.00	0.00
ATOM 338	OH	TYR	A	25	-13.981	-7.148	-9.118	1.00	0.00
ATOM 339	H	TYR	A	25	-12.066	-14.338	-5.346	1.00	0.00
ATOM 340	HA	TYR	A	25	-13.032	-11.569	-5.056	1.00	0.00
ATOM 341	1HB	TYR	A	25	-11.375	-12.208	-6.961	1.00	0.00
ATOM 342	2HB	TYR	A	25	-12.786	-12.950	-7.711	1.00	0.00
ATOM 343	HD1	TYR	A	25	-14.683	-11.555	-8.432	1.00	0.00
ATOM 344	HD2	TYR	A	25	-11.132	-9.823	-6.856	1.00	0.00
ATOM 345	HE1	TYR	A	25	-15.351	-9.371	-9.344	1.00	0.00
ATOM 346	HE2	TYR	A	25	-11.790	-7.634	-7.762	1.00	0.00
ATOM 347	HH	TYR	A	25	-14.378	-7.267	-9.984	1.00	0.00
ATOM 348	N	SER	A	26	-15.259	-12.777	-4.715	1.00	0.00
ATOM 349	CA	SER	A	26	-16.655	-13.201	-4.712	1.00	0.00
ATOM 350	C	SER	A	26	-17.569	-12.069	-5.171	1.00	0.00
ATOM 351	O	SER	A	26	-17.119	-10.944	-5.390	1.00	0.00

ATOM 352	CB	SER A	26	-17.065	-13.668	-3.315	1.00	0.00
ATOM 353	OG	SER A	26	-16.854	-12.648	-2.353	1.00	0.00
ATOM 354	H	SER A	26	-14.892	-12.338	-3.919	1.00	0.00
ATOM 355	HA	SER A	26	-16.751	-14.027	-5.400	1.00	0.00
ATOM 356	1HB	SER A	26	-18.113	-13.930	-3.317	1.00	0.00
ATOM 357	2HB	SER A	26	-16.480	-14.532	-3.039	1.00	0.00
ATOM 358	HG	SER A	26	-17.200	-11.816	-2.686	1.00	0.00
ATOM 359	N	GLN A	27	-18.853	-12.375	-5.315	1.00	0.00
ATOM 360	CA	GLN A	27	-19.832	-11.384	-5.748	1.00	0.00
ATOM 361	C	GLN A	27	-19.890	-10.211	-4.773	1.00	0.00
ATOM 362	O	GLN A	27	-20.203	-9.086	-5.160	1.00	0.00
ATOM 363	CB	GLN A	27	-21.215	-12.025	-5.875	1.00	0.00
ATOM 364	CG	GLN A	27	-21.251	-13.213	-6.822	1.00	0.00
ATOM 365	CD	GLN A	27	-21.114	-12.804	-8.275	1.00	0.00
ATOM 366	OE1	GLN A	27	-20.316	-11.929	-8.613	1.00	0.00
ATOM 367	NE2	GLN A	27	-21.895	-13.435	-9.144	1.00	0.00
ATOM 368	H	GLN A	27	-19.152	-13.289	-5.125	1.00	0.00
ATOM 369	HA	GLN A	27	-19.526	-11.017	-6.715	1.00	0.00
ATOM 370	1HB	GLN A	27	-21.535	-12.361	-4.898	1.00	0.00
ATOM 371	2HB	GLN A	27	-21.911	-11.283	-6.236	1.00	0.00
ATOM 372	1HG	GLN A	27	-20.437	-13.878	-6.574	1.00	0.00
ATOM 373	2HG	GLN A	27	-22.190	-13.731	-6.695	1.00	0.00
ATOM 374	1HE2	GLN A	27	-22.507	-14.120	-8.804	1.00	0.00
ATOM 375	2HE2	GLN A	27	-21.827	-13.189	-10.091	1.00	0.00
ATOM 376	N	ASP A	28	-19.587	-10.482	-3.507	1.00	0.00
ATOM 377	CA	ASP A	28	-19.606	-9.448	-2.478	1.00	0.00
ATOM 378	C	ASP A	28	-18.656	-8.309	-2.833	1.00	0.00

ATOM 379	O	ASP A	28	-19.035	-7.138	-2.799	1.00	0.00
ATOM 380	CB	ASP A	28	-19.224	-10.043	-1.121	1.00	0.00
ATOM 381	CG	ASP A	28	-20.239	-11.054	-0.627	1.00	0.00
ATOM 382	OD1	ASP A	28	-21.389	-11.028	-1.113	1.00	0.00
ATOM 383	OD2	ASP A	28	-19.884	-11.875	0.246	1.00	0.00
ATOM 384	H	ASP A	28	-19.346	-11.400	-3.258	1.00	0.00
ATOM 385	HA	ASP A	28	-20.610	-9.058	-2.420	1.00	0.00
ATOM 386	1HB	ASP A	28	-18.266	-10.536	-1.207	1.00	0.00
ATOM 387	2HB	ASP A	28	-19.151	-9.248	-0.394	1.00	0.00
ATOM 388	N	ILE A	29	-17.420	-8.660	-3.174	1.00	0.00
ATOM 389	CA	ILE A	29	-16.418	-7.665	-3.538	1.00	0.00
ATOM 390	C	ILE A	29	-16.853	-6.871	-4.764	1.00	0.00
ATOM 391	O	ILE A	29	-16.482	-5.708	-4.927	1.00	0.00
ATOM 392	CB	ILE A	29	-15.051	-8.321	-3.819	1.00	0.00
ATOM 393	CG1	ILE A	29	-14.642	-9.227	-2.655	1.00	0.00
ATOM 394	CG2	ILE A	29	-13.990	-7.256	-4.064	1.00	0.00
ATOM 395	CD1	ILE A	29	-14.595	-8.513	-1.321	1.00	0.00
ATOM 396	H	ILE A	29	-17.178	-9.610	-3.185	1.00	0.00
ATOM 397	HA	ILE A	29	-16.303	-6.988	-2.704	1.00	0.00
ATOM 398	HB	ILE A	29	-15.140	-8.917	-4.715	1.00	0.00
ATOM 399	1HG1	ILE A	29	-15.350	-10.037	-2.572	1.00	0.00
ATOM 400	2HG1	ILE A	29	-13.661	-9.632	-2.851	1.00	0.00
ATOM 401	1HG2	ILE A	29	-13.819	-6.703	-3.152	1.00	0.00
ATOM 402	2HG2	ILE A	29	-14.329	-6.582	-4.836	1.00	0.00
ATOM 403	3HG2	ILE A	29	-13.071	-7.729	-4.377	1.00	0.00
ATOM 404	1HD1	ILE A	29	-15.525	-7.986	-1.161	1.00	0.00
ATOM 405	2HD1	ILE A	29	-13.777	-7.808	-1.319	1.00	0.00

ATOM 406	3HD1	ILE	A	29	-14.449	-9.235	-0.531	1.00	0.00
ATOM 407	N	ALA	A	30	-17.642	-7.505	-5.625	1.00	0.00
ATOM 408	CA	ALA	A	30	-18.129	-6.856	-6.836	1.00	0.00
ATOM 409	C	ALA	A	30	-19.081	-5.711	-6.505	1.00	0.00
ATOM 410	O	ALA	A	30	-19.249	-4.783	-7.297	1.00	0.00
ATOM 411	CB	ALA	A	30	-18.814	-7.870	-7.738	1.00	0.00
ATOM 412	H	ALA	A	30	-17.904	-8.431	-5.441	1.00	0.00
ATOM 413	HA	ALA	A	30	-17.275	-6.458	-7.366	1.00	0.00
ATOM 414	1HB	ALA	A	30	-19.609	-7.386	-8.287	1.00	0.00
ATOM 415	2HB	ALA	A	30	-19.225	-8.667	-7.136	1.00	0.00
ATOM 416	3HB	ALA	A	30	-18.095	-8.279	-8.433	1.00	0.00
ATOM 417	N	GLN	A	31	-19.705	-5.782	-5.332	1.00	0.00
ATOM 418	CA	GLN	A	31	-20.642	-4.750	-4.902	1.00	0.00
ATOM 419	C	GLN	A	31	-20.316	-4.273	-3.486	1.00	0.00
ATOM 420	O	GLN	A	31	-20.373	-5.052	-2.536	1.00	0.00
ATOM 421	CB	GLN	A	31	-22.075	-5.283	-4.953	1.00	0.00
ATOM 422	CG	GLN	A	31	-22.640	-5.373	-6.362	1.00	0.00
ATOM 423	CD	GLN	A	31	-23.293	-4.080	-6.810	1.00	0.00
ATOM 424	OE1	GLN	A	31	-22.621	-3.070	-7.015	1.00	0.00
ATOM 425	NE2	GLN	A	31	-24.612	-4.106	-6.965	1.00	0.00
ATOM 426	H	GLN	A	31	-19.532	-6.545	-4.744	1.00	0.00
ATOM 427	HA	GLN	A	31	-20.553	-3.919	-5.584	1.00	0.00
ATOM 428	1HB	GLN	A	31	-22.095	-6.270	-4.517	1.00	0.00
ATOM 429	2HB	GLN	A	31	-22.711	-4.630	-4.375	1.00	0.00
ATOM 430	1HG	GLN	A	31	-21.837	-5.607	-7.043	1.00	0.00
ATOM 431	2HG	GLN	A	31	-23.378	-6.161	-6.390	1.00	0.00
ATOM 432	1HE2	GLN	A	31	-25.083	-4.947	-6.783	1.00	0.00



ATOM 433	2HE2	GLN	A	31	-25.060	-3.284	-7.254	1.00	0.00
ATOM 434	N	PRO	A	32	-19.970	-2.981	-3.325	1.00	0.00
ATOM 435	CA	PRO	A	32	-19.638	-2.413	-2.013	1.00	0.00
ATOM 436	C	PRO	A	32	-20.753	-2.617	-0.991	1.00	0.00
ATOM 437	O	PRO	A	32	-20.516	-2.574	0.216	1.00	0.00
ATOM 438	CB	PRO	A	32	-19.447	-0.921	-2.302	1.00	0.00
ATOM 439	CG	PRO	A	32	-19.122	-0.850	-3.754	1.00	0.00
ATOM 440	CD	PRO	A	32	-19.875	-1.977	-4.400	1.00	0.00
ATOM 441	HA	PRO	A	32	-18.719	-2.828	-1.625	1.00	0.00
ATOM 442	1HB	PRO	A	32	-20.358	-0.389	-2.074	1.00	0.00
ATOM 443	2HB	PRO	A	32	-18.638	-0.536	-1.698	1.00	0.00
ATOM 444	1HG	PRO	A	32	-19.446	0.098	-4.156	1.00	0.00
ATOM 445	2HG	PRO	A	32	-18.060	-0.977	-3.900	1.00	0.00
ATOM 446	1HD	PRO	A	32	-20.857	-1.647	-4.709	1.00	0.00
ATOM 447	2HD	PRO	A	32	-19.323	-2.366	-5.242	1.00	0.00
ATOM 448	N	SER	A	33	-21.970	-2.835	-1.482	1.00	0.00
ATOM 449	CA	SER	A	33	-23.124	-3.042	-0.611	1.00	0.00
ATOM 450	C	SER	A	33	-22.846	-4.129	0.423	1.00	0.00
ATOM 451	O	SER	A	33	-23.393	-4.104	1.526	1.00	0.00
ATOM 452	CB	SER	A	33	-24.354	-3.415	-1.441	1.00	0.00
ATOM 453	OG	SER	A	33	-25.491	-3.596	-0.615	1.00	0.00
ATOM 454	H	SER	A	33	-22.097	-2.854	-2.453	1.00	0.00
ATOM 455	HA	SER	A	33	-23.319	-2.114	-0.095	1.00	0.00
ATOM 456	1HB	SER	A	33	-24.560	-2.628	-2.150	1.00	0.00
ATOM 457	2HB	SER	A	33	-24.160	-4.336	-1.972	1.00	0.00
ATOM 458	HG	SER	A	33	-25.460	-4.466	-0.213	1.00	0.00
ATOM 459	N	THR	A	34	-21.994	-5.083	0.060	1.00	0.00

ATOM 460	CA	THR A	34	-21.645	-6.177	0.958	1.00	0.00
ATOM 461	C	THR A	34	-20.560	-5.752	1.942	1.00	0.00
ATOM 462	O	THR A	34	-19.905	-4.727	1.754	1.00	0.00
ATOM 463	CB	THR A	34	-21.176	-7.392	0.157	1.00	0.00
ATOM 464	OG1	THR A	34	-19.941	-7.123	-0.483	1.00	0.00
ATOM 465	CG2	THR A	34	-22.161	-7.823	-0.909	1.00	0.00
ATOM 466	H	THR A	34	-21.590	-5.049	-0.832	1.00	0.00
ATOM 467	HA	THR A	34	-22.533	-6.445	1.513	1.00	0.00
ATOM 468	HB	THR A	34	-21.035	-8.223	0.832	1.00	0.00
ATOM 469	HG1	THR A	34	-20.074	-6.473	-1.176	1.00	0.00
ATOM 470	1HG2	THR A	34	-22.075	-8.887	-1.070	1.00	0.00
ATOM 471	2HG2	THR A	34	-21.946	-7.301	-1.830	1.00	0.00
ATOM 472	3HG2	THR A	34	-23.165	-7.588	-0.587	1.00	0.00
ATOM 473	N	THR A	35	-20.376	-6.547	2.990	1.00	0.00
ATOM 474	CA	THR A	35	-19.370	-6.255	4.005	1.00	0.00
ATOM 475	C	THR A	35	-17.986	-6.713	3.552	1.00	0.00
ATOM 476	O	THR A	35	-16.972	-6.137	3.943	1.00	0.00
ATOM 477	CB	THR A	35	-19.736	-6.933	5.325	1.00	0.00
ATOM 478	OG1	THR A	35	-21.126	-6.826	5.575	1.00	0.00
ATOM 479	CG2	THR A	35	-19.010	-6.352	6.519	1.00	0.00
ATOM 480	H	THR A	35	-20.930	-7.350	3.084	1.00	0.00
ATOM 481	HA	THR A	35	-19.350	-5.186	4.153	1.00	0.00
ATOM 482	HB	THR A	35	-19.484	-7.981	5.262	1.00	0.00
ATOM 483	HG1	THR A	35	-21.392	-5.905	5.519	1.00	0.00
ATOM 484	1HG2	THR A	35	-18.357	-5.556	6.191	1.00	0.00
ATOM 485	2HG2	THR A	35	-18.426	-7.124	6.996	1.00	0.00
ATOM 486	3HG2	THR A	35	-19.729	-5.960	7.223	1.00	0.00

ATOM 487	N	LYS A	36	-17.955	-7.754	2.724	1.00	0.00
ATOM 488	CA	LYS A	36	-16.695	-8.291	2.217	1.00	0.00
ATOM 489	C	LYS A	36	-15.889	-7.213	1.499	1.00	0.00
ATOM 490	O	LYS A	36	-14.660	-7.268	1.458	1.00	0.00
ATOM 491	CB	LYS A	36	-16.964	-9.460	1.267	1.00	0.00
ATOM 492	CG	LYS A	36	-15.922	-10.563	1.350	1.00	0.00
ATOM 493	CD	LYS A	36	-16.168	-11.640	0.306	1.00	0.00
ATOM 494	CE	LYS A	36	-15.427	-12.924	0.642	1.00	0.00
ATOM 495	NZ	LYS A	36	-15.286	-13.811	-0.545	1.00	0.00
ATOM 496	H	LYS A	36	-18.797	-8.172	2.448	1.00	0.00
ATOM 497	HA	LYS A	36	-16.125	-8.649	3.061	1.00	0.00
ATOM 498	1HB	LYS A	36	-17.928	-9.886	1.503	1.00	0.00
ATOM 499	2HB	LYS A	36	-16.982	-9.087	0.254	1.00	0.00
ATOM 500	1HG	LYS A	36	-14.944	-10.135	1.187	1.00	0.00
ATOM 501	2HG	LYS A	36	-15.963	-11.011	2.332	1.00	0.00
ATOM 502	1HD	LYS A	36	-17.226	-11.849	0.261	1.00	0.00
ATOM 503	2HD	LYS A	36	-15.830	-11.280	-0.655	1.00	0.00
ATOM 504	1HE	LYS A	36	-14.444	-12.670	1.009	1.00	0.00
ATOM 505	2HE	LYS A	36	-15.973	-13.449	1.411	1.00	0.00
ATOM 506	1HZ	LYS A	36	-14.928	-13.269	-1.356	1.00	0.00
ATOM 507	2HZ	LYS A	36	-16.208	-14.221	-0.796	1.00	0.00
ATOM 508	3HZ	LYS A	36	-14.620	-14.583	-0.337	1.00	0.00
ATOM 509	N	TYR A	37	-16.588	-6.232	0.936	1.00	0.00
ATOM 510	CA	TYR A	37	-15.935	-5.143	0.219	1.00	0.00
ATOM 511	C	TYR A	37	-15.496	-4.043	1.181	1.00	0.00
ATOM 512	O	TYR A	37	-14.371	-3.551	1.105	1.00	0.00
ATOM 513	CB	TYR A	37	-16.877	-4.565	-0.838	1.00	0.00

ATOM 514	CG	TYR A	37	-16.262	-3.452	-1.656	1.00	0.00
ATOM 515	CD1	TYR A	37	-15.583	-3.726	-2.836	1.00	0.00
ATOM 516	CD2	TYR A	37	-16.360	-2.128	-1.249	1.00	0.00
ATOM 517	CE1	TYR A	37	-15.019	-2.712	-3.588	1.00	0.00
ATOM 518	CE2	TYR A	37	-15.800	-1.107	-1.994	1.00	0.00
ATOM 519	CZ	TYR A	37	-15.130	-1.405	-3.162	1.00	0.00
ATOM 520	OH	TYR A	37	-14.570	-0.393	-3.908	1.00	0.00
ATOM 521	H	TYR A	37	-17.565	-6.243	1.001	1.00	0.00
ATOM 522	HA	TYR A	37	-15.062	-5.544	-0.271	1.00	0.00
ATOM 523	1HB	TYR A	37	-17.170	-5.351	-1.518	1.00	0.00
ATOM 524	2HB	TYR A	37	-17.757	-4.171	-0.350	1.00	0.00
ATOM 525	HD1	TYR A	37	-15.497	-4.749	-3.167	1.00	0.00
ATOM 526	HD2	TYR A	37	-16.884	-1.898	-0.332	1.00	0.00
ATOM 527	HE1	TYR A	37	-14.495	-2.945	-4.503	1.00	0.00
ATOM 528	HE2	TYR A	37	-15.887	-0.084	-1.660	1.00	0.00
ATOM 529	HH	TYR A	37	-13.616	-0.417	-3.815	1.00	0.00
ATOM 530	N	GLN A	38	-16.394	-3.662	2.084	1.00	0.00
ATOM 531	CA	GLN A	38	-16.100	-2.619	3.061	1.00	0.00
ATOM 532	C	GLN A	38	-15.013	-3.069	4.031	1.00	0.00
ATOM 533	O	GLN A	38	-14.238	-2.254	4.533	1.00	0.00
ATOM 534	CB	GLN A	38	-17.366	-2.244	3.833	1.00	0.00
ATOM 535	CG	GLN A	38	-18.319	-1.360	3.047	1.00	0.00
ATOM 536	CD	GLN A	38	-19.737	-1.411	3.580	1.00	0.00
ATOM 537	OE1	GLN A	38	-20.052	-0.803	4.603	1.00	0.00
ATOM 538	NE2	GLN A	38	-20.603	-2.143	2.887	1.00	0.00
ATOM 539	H	GLN A	38	-17.275	-4.091	2.094	1.00	0.00
ATOM 540	HA	GLN A	38	-15.748	-1.751	2.523	1.00	0.00

ATOM 541	1HB	GLN A	38	-17.890	-3.149	4.103	1.00	0.00
ATOM 542	2HB	GLN A	38	-17.082	-1.720	4.733	1.00	0.00
ATOM 543	1HG	GLN A	38	-17.969	-0.339	3.099	1.00	0.00
ATOM 544	2HG	GLN A	38	-18.325	-1.684	2.017	1.00	0.00
ATOM 545	1HE2	GLN A	38	-20.282	-2.602	2.083	1.00	0.00
ATOM 546	2HE2	GLN A	38	-21.527	-2.195	3.210	1.00	0.00
ATOM 547	N	GLN A	39	-14.962	-4.370	4.294	1.00	0.00
ATOM 548	CA	GLN A	39	-13.971	-4.929	5.207	1.00	0.00
ATOM 549	C	GLN A	39	-12.581	-4.918	4.578	1.00	0.00
ATOM 550	O	GLN A	39	-11.636	-4.371	5.146	1.00	0.00
ATOM 551	CB	GLN A	39	-14.357	-6.356	5.601	1.00	0.00
ATOM 552	CG	GLN A	39	-15.078	-6.444	6.936	1.00	0.00
ATOM 553	CD	GLN A	39	-14.229	-7.089	8.016	1.00	0.00
ATOM 554	OE1	GLN A	39	-13.351	-6.451	8.596	1.00	0.00
ATOM 555	NE2	GLN A	39	-14.488	-8.363	8.290	1.00	0.00
ATOM 556	H	GLN A	39	-15.607	-4.971	3.865	1.00	0.00
ATOM 557	HA	GLN A	39	-13.955	-4.312	6.094	1.00	0.00
ATOM 558	1HB	GLN A	39	-15.005	-6.764	4.839	1.00	0.00
ATOM 559	2HB	GLN A	39	-13.461	-6.957	5.659	1.00	0.00
ATOM 560	1HG	GLN A	39	-15.341	-5.447	7.256	1.00	0.00
ATOM 561	2HG	GLN A	39	-15.977	-7.030	6.808	1.00	0.00
ATOM 562	1HE2	GLN A	39	-15.202	-8.809	7.787	1.00	0.00
ATOM 563	2HE2	GLN A	39	-13.956	-8.805	8.983	1.00	0.00
ATOM 564	N	THR A	40	-12.463	-5.530	3.403	1.00	0.00
ATOM 565	CA	THR A	40	-11.188	-5.595	2.698	1.00	0.00
ATOM 566	C	THR A	40	-10.654	-4.197	2.403	1.00	0.00
ATOM 567	O	THR A	40	-9.451	-3.949	2.490	1.00	0.00

ATOM 568	CB	THR A	40	-11.343	-6.380	1.395	1.00	0.00
ATOM 569	OG1	THR A	40	-11.960	-7.632	1.634	1.00	0.00
ATOM 570	CG2	THR A	40	-10.028	-6.641	0.694	1.00	0.00
ATOM 571	H	THR A	40	-13.253	-5.950	3.003	1.00	0.00
ATOM 572	HA	THR A	40	-10.484	-6.109	3.335	1.00	0.00
ATOM 573	HB	THR A	40	-11.971	-5.815	0.720	1.00	0.00
ATOM 574	HG1	THR A	40	-12.703	-7.743	1.037	1.00	0.00
ATOM 575	1HG2	THR A	40	-10.045	-7.626	0.251	1.00	0.00
ATOM 576	2HG2	THR A	40	-9.221	-6.582	1.410	1.00	0.00
ATOM 577	3HG2	THR A	40	-9.878	-5.903	-0.079	1.00	0.00
ATOM 578	N	LYS A	41	-11.555	-3.285	2.051	1.00	0.00
ATOM 579	CA	LYS A	41	-11.172	-1.911	1.741	1.00	0.00
ATOM 580	C	LYS A	41	-10.493	-1.250	2.936	1.00	0.00
ATOM 581	O	LYS A	41	-9.407	-0.683	2.810	1.00	0.00
ATOM 582	CB	LYS A	41	-12.401	-1.100	1.325	1.00	0.00
ATOM 583	CG	LYS A	41	-12.072	0.090	0.438	1.00	0.00
ATOM 584	CD	LYS A	41	-13.333	0.785	-0.048	1.00	0.00
ATOM 585	CE	LYS A	41	-13.014	1.885	-1.048	1.00	0.00
ATOM 586	NZ	LYS A	41	-12.450	3.094	-0.385	1.00	0.00
ATOM 587	H	LYS A	41	-12.499	-3.542	1.998	1.00	0.00
ATOM 588	HA	LYS A	41	-10.475	-1.940	0.917	1.00	0.00
ATOM 589	1HB	LYS A	41	-13.079	-1.746	0.788	1.00	0.00
ATOM 590	2HB	LYS A	41	-12.894	-0.734	2.214	1.00	0.00
ATOM 591	1HG	LYS A	41	-11.479	0.794	1.002	1.00	0.00
ATOM 592	2HG	LYS A	41	-11.509	-0.256	-0.417	1.00	0.00
ATOM 593	1HD	LYS A	41	-13.975	0.059	-0.520	1.00	0.00
ATOM 594	2HD	LYS A	41	-13.842	1.220	0.801	1.00	0.00

ATOM 595	1HE	LYS	A	41	-12.294	1.507	-1.760	1.00	0.00
ATOM 596	2HE	LYS	A	41	-13.921	2.158	-1.566	1.00	0.00
ATOM 597	1HZ	LYS	A	41	-11.840	3.613	-1.048	1.00	0.00
ATOM 598	2HZ	LYS	A	41	-11.888	2.817	0.444	1.00	0.00
ATOM 599	3HZ	LYS	A	41	-13.219	3.721	-0.074	1.00	0.00
ATOM 600	N	ARG	A	42	-11.139	-1.324	4.095	1.00	0.00
ATOM 601	CA	ARG	A	42	-10.598	-0.729	5.312	1.00	0.00
ATOM 602	C	ARG	A	42	-9.339	-1.461	5.767	1.00	0.00
ATOM 603	O	ARG	A	42	-8.385	-0.841	6.238	1.00	0.00
ATOM 604	CB	ARG	A	42	-11.647	-0.757	6.426	1.00	0.00
ATOM 605	CG	ARG	A	42	-11.651	0.496	7.288	1.00	0.00
ATOM 606	CD	ARG	A	42	-13.060	1.032	7.489	1.00	0.00
ATOM 607	NE	ARG	A	42	-13.081	2.488	7.599	1.00	0.00
ATOM 608	CZ	ARG	A	42	-14.172	3.230	7.417	1.00	0.00
ATOM 609	NH1	ARG	A	42	-15.331	2.658	7.116	1.00	0.00
ATOM 610	NH2	ARG	A	42	-14.103	4.549	7.534	1.00	0.00
ATOM 611	H	ARG	A	42	-12.002	-1.787	4.132	1.00	0.00
ATOM 612	HA	ARG	A	42	-10.345	0.297	5.094	1.00	0.00
ATOM 613	1HB	ARG	A	42	-12.624	-0.866	5.979	1.00	0.00
ATOM 614	2HB	ARG	A	42	-11.455	-1.606	7.064	1.00	0.00
ATOM 615	1HG	ARG	A	42	-11.227	0.258	8.252	1.00	0.00
ATOM 616	2HG	ARG	A	42	-11.053	1.255	6.806	1.00	0.00
ATOM 617	1HD	ARG	A	42	-13.668	0.735	6.648	1.00	0.00
ATOM 618	2HD	ARG	A	42	-13.468	0.606	8.395	1.00	0.00
ATOM 619	HE	ARG	A	42	-12.240	2.938	7.819	1.00	0.00
ATOM 620	1HH1	ARG	A	42	-15.390	1.663	7.026	1.00	0.00
ATOM 621	2HH1	ARG	A	42	-16.146	3.221	6.981	1.00	0.00

ATOM 622	1HH2	ARG	A	42	-13.232	4.986	7.761	1.00	0.00
ATOM 623	2HH2	ARG	A	42	-14.923	5.107	7.398	1.00	0.00
ATOM 624	N	SER	A	43	-9.343	-2.781	5.624	1.00	0.00
ATOM 625	CA	SER	A	43	-8.201	-3.598	6.022	1.00	0.00
ATOM 626	C	SER	A	43	-6.943	-3.191	5.260	1.00	0.00
ATOM 627	O	SER	A	43	-5.882	-2.996	5.855	1.00	0.00
ATOM 628	CB	SER	A	43	-8.499	-5.078	5.781	1.00	0.00
ATOM 629	OG	SER	A	43	-7.512	-5.902	6.379	1.00	0.00
ATOM 630	H	SER	A	43	-10.133	-3.219	5.243	1.00	0.00
ATOM 631	HA	SER	A	43	-8.035	-3.442	7.077	1.00	0.00
ATOM 632	1HB	SER	A	43	-9.460	-5.325	6.207	1.00	0.00
ATOM 633	2HB	SER	A	43	-8.516	-5.273	4.718	1.00	0.00
ATOM 634	HG	SER	A	43	-7.411	-5.661	7.303	1.00	0.00
ATOM 635	N	ILE	A	44	-7.067	-3.068	3.943	1.00	0.00
ATOM 636	CA	ILE	A	44	-5.939	-2.688	3.101	1.00	0.00
ATOM 637	C	ILE	A	44	-5.556	-1.226	3.314	1.00	0.00
ATOM 638	O	ILE	A	44	-4.393	-0.909	3.561	1.00	0.00
ATOM 639	CB	ILE	A	44	-6.250	-2.913	1.609	1.00	0.00
ATOM 640	CG1	ILE	A	44	-6.765	-4.336	1.381	1.00	0.00
ATOM 641	CG2	ILE	A	44	-5.014	-2.652	0.761	1.00	0.00
ATOM 642	CD1	ILE	A	44	-7.653	-4.469	0.164	1.00	0.00
ATOM 643	H	ILE	A	44	-7.937	-3.239	3.527	1.00	0.00
ATOM 644	HA	ILE	A	44	-5.099	-3.311	3.370	1.00	0.00
ATOM 645	HB	ILE	A	44	-7.014	-2.211	1.313	1.00	0.00
ATOM 646	1HG1	ILE	A	44	-5.925	-5.000	1.252	1.00	0.00
ATOM 647	2HG1	ILE	A	44	-7.335	-4.648	2.244	1.00	0.00
ATOM 648	1HG2	ILE	A	44	-5.247	-2.825	-0.279	1.00	0.00



ATOM 649	2HG2	ILE	A	44	-4.220	-3.317	1.068	1.00	0.00
ATOM 650	3HG2	ILE	A	44	-4.697	-1.628	0.894	1.00	0.00
ATOM 651	1HD1	ILE	A	44	-8.559	-3.900	0.314	1.00	0.00
ATOM 652	2HD1	ILE	A	44	-7.902	-5.510	0.012	1.00	0.00
ATOM 653	3HD1	ILE	A	44	-7.132	-4.094	-0.705	1.00	0.00
ATOM 654	N	GLU	A	45	-6.541	-0.339	3.216	1.00	0.00
ATOM 655	CA	GLU	A	45	-6.306	1.089	3.396	1.00	0.00
ATOM 656	C	GLU	A	45	-5.688	1.376	4.761	1.00	0.00
ATOM 657	O	GLU	A	45	-4.899	2.310	4.911	1.00	0.00
ATOM 658	CB	GLU	A	45	-7.615	1.866	3.242	1.00	0.00
ATOM 659	CG	GLU	A	45	-7.450	3.201	2.534	1.00	0.00
ATOM 660	CD	GLU	A	45	-7.066	4.321	3.481	1.00	0.00
ATOM 661	OE1	GLU	A	45	-5.990	4.922	3.283	1.00	0.00
ATOM 662	OE2	GLU	A	45	-7.841	4.594	4.422	1.00	0.00
ATOM 663	H	GLU	A	45	-7.449	-0.653	3.017	1.00	0.00
ATOM 664	HA	GLU	A	45	-5.617	1.410	2.629	1.00	0.00
ATOM 665	1HB	GLU	A	45	-8.311	1.266	2.676	1.00	0.00
ATOM 666	2HB	GLU	A	45	-8.027	2.051	4.223	1.00	0.00
ATOM 667	1HG	GLU	A	45	-6.679	3.103	1.785	1.00	0.00
ATOM 668	2HG	GLU	A	45	-8.384	3.458	2.056	1.00	0.00
ATOM 669	N	ASN	A	46	-6.052	0.571	5.752	1.00	0.00
ATOM 670	CA	ASN	A	46	-5.532	0.742	7.105	1.00	0.00
ATOM 671	C	ASN	A	46	-4.099	0.227	7.208	1.00	0.00
ATOM 672	O	ASN	A	46	-3.264	0.823	7.888	1.00	0.00
ATOM 673	CB	ASN	A	46	-6.422	0.011	8.111	1.00	0.00
ATOM 674	CG	ASN	A	46	-5.989	0.246	9.545	1.00	0.00
ATOM 675	OD1	ASN	A	46	-5.824	1.388	9.975	1.00	0.00

ATOM 676	ND2	ASN	A	46	-5.802	-0.835	10.293	1.00	0.00
ATOM 677	H	ASN	A	46	-6.684	-0.155	5.572	1.00	0.00
ATOM 678	HA	ASN	A	46	-5.540	1.797	7.332	1.00	0.00
ATOM 679	1HB	ASN	A	46	-7.440	0.356	8.001	1.00	0.00
ATOM 680	2HB	ASN	A	46	-6.384	-1.050	7.912	1.00	0.00
ATOM 681	1HD2	ASN	A	46	-5.953	-1.712	9.882	1.00	0.00
ATOM 682	2HD2	ASN	A	46	-5.522	-0.712	11.224	1.00	0.00
ATOM 683	N	ALA	A	47	-3.823	-0.881	6.530	1.00	0.00
ATOM 684	CA	ALA	A	47	-2.492	-1.475	6.548	1.00	0.00
ATOM 685	C	ALA	A	47	-1.472	-0.560	5.879	1.00	0.00
ATOM 686	O	ALA	A	47	-0.320	-0.481	6.306	1.00	0.00
ATOM 687	CB	ALA	A	47	-2.512	-2.833	5.863	1.00	0.00
ATOM 688	H	ALA	A	47	-4.532	-1.311	6.006	1.00	0.00
ATOM 689	HA	ALA	A	47	-2.206	-1.623	7.579	1.00	0.00
ATOM 690	1HB	ALA	A	47	-3.225	-2.817	5.051	1.00	0.00
ATOM 691	2HB	ALA	A	47	-2.798	-3.592	6.577	1.00	0.00
ATOM 692	3HB	ALA	A	47	-1.529	-3.057	5.475	1.00	0.00
ATOM 693	N	LEU	A	48	-1.903	0.129	4.827	1.00	0.00
ATOM 694	CA	LEU	A	48	-1.026	1.039	4.099	1.00	0.00
ATOM 695	C	LEU	A	48	-0.752	2.300	4.911	1.00	0.00
ATOM 696	O	LEU	A	48	0.318	2.900	4.802	1.00	0.00
ATOM 697	CB	LEU	A	48	-1.650	1.410	2.751	1.00	0.00
ATOM 698	CG	LEU	A	48	-1.951	0.227	1.830	1.00	0.00
ATOM 699	CD1	LEU	A	48	-2.771	0.679	0.632	1.00	0.00
ATOM 700	CD2	LEU	A	48	-0.659	-0.435	1.376	1.00	0.00
ATOM 701	H	LEU	A	48	-2.832	0.024	4.534	1.00	0.00
ATOM 702	HA	LEU	A	48	-0.091	0.529	3.923	1.00	0.00

ATOM 703	1HB	LEU	A	48	-2.573	1.939	2.940	1.00	0.00
ATOM 704	2HB	LEU	A	48	-0.973	2.075	2.236	1.00	0.00
ATOM 705	HG	LEU	A	48	-2.531	-0.505	2.373	1.00	0.00
ATOM 706	1HD1	LEU	A	48	-2.749	-0.087	-0.128	1.00	0.00
ATOM 707	2HD1	LEU	A	48	-2.354	1.592	0.234	1.00	0.00
ATOM 708	3HD1	LEU	A	48	-3.791	0.854	0.938	1.00	0.00
ATOM 709	1HD2	LEU	A	48	0.142	0.288	1.397	1.00	0.00
ATOM 710	2HD2	LEU	A	48	-0.781	-0.810	0.371	1.00	0.00
ATOM 711	3HD2	LEU	A	48	-0.422	-1.254	2.039	1.00	0.00
ATOM 712	N	ASN	A	49	-1.725	2.698	5.725	1.00	0.00
ATOM 713	CA	ASN	A	49	-1.587	3.889	6.556	1.00	0.00
ATOM 714	C	ASN	A	49	-0.391	3.763	7.494	1.00	0.00
ATOM 715	O	ASN	A	49	0.552	4.551	7.424	1.00	0.00
ATOM 716	CB	ASN	A	49	-2.864	4.118	7.367	1.00	0.00
ATOM 717	CG	ASN	A	49	-2.990	5.547	7.858	1.00	0.00
ATOM 718	OD1	ASN	A	49	-2.195	6.006	8.676	1.00	0.00
ATOM 719	ND2	ASN	A	49	-3.995	6.258	7.358	1.00	0.00
ATOM 720	H	ASN	A	49	-2.554	2.178	5.768	1.00	0.00
ATOM 721	HA	ASN	A	49	-1.431	4.733	5.903	1.00	0.00
ATOM 722	1HB	ASN	A	49	-3.721	3.893	6.749	1.00	0.00
ATOM 723	2HB	ASN	A	49	-2.862	3.460	8.225	1.00	0.00
ATOM 724	1HD2	ASN	A	49	-4.590	5.826	6.710	1.00	0.00
ATOM 725	2HD2	ASN	A	49	-4.099	7.185	7.658	1.00	0.00
ATOM 726	N	GLN	A	50	-0.439	2.768	8.373	1.00	0.00
ATOM 727	CA	GLN	A	50	0.639	2.537	9.328	1.00	0.00
ATOM 728	C	GLN	A	50	1.966	2.300	8.610	1.00	0.00
ATOM 729	O	GLN	A	50	3.032	2.620	9.135	1.00	0.00

ATOM 730	CB	GLN A	50	0.309	1.339	10.220	1.00	0.00
ATOM 731	CG	GLN A	50	0.015	0.066	9.443	1.00	0.00
ATOM 732	CD	GLN A	50	-1.050	-0.788	10.104	1.00	0.00
ATOM 733	OE1	GLN A	50	-2.203	-0.803	9.674	1.00	0.00
ATOM 734	NE2	GLN A	50	-0.666	-1.504	11.154	1.00	0.00
ATOM 735	H	GLN A	50	-1.217	2.174	8.381	1.00	0.00
ATOM 736	HA	GLN A	50	0.731	3.419	9.945	1.00	0.00
ATOM 737	1HB	GLN A	50	1.145	1.151	10.877	1.00	0.00
ATOM 738	2HB	GLN A	50	-0.559	1.579	10.817	1.00	0.00
ATOM 739	1HG	GLN A	50	-0.322	0.333	8.453	1.00	0.00
ATOM 740	2HG	GLN A	50	0.925	-0.512	9.369	1.00	0.00
ATOM 741	1HE2	GLN A	50	0.269	-1.443	11.439	1.00	0.00
ATOM 742	2HE2	GLN A	50	-1.335	-2.065	11.599	1.00	0.00
ATOM 743	N	LEU A	51	1.891	1.734	7.409	1.00	0.00
ATOM 744	CA	LEU A	51	3.085	1.453	6.622	1.00	0.00
ATOM 745	C	LEU A	51	3.785	2.744	6.208	1.00	0.00
ATOM 746	O	LEU A	51	5.007	2.780	6.061	1.00	0.00
ATOM 747	CB	LEU A	51	2.722	0.635	5.380	1.00	0.00
ATOM 748	CG	LEU A	51	3.902	-0.045	4.684	1.00	0.00
ATOM 749	CD1	LEU A	51	3.454	-1.331	4.007	1.00	0.00
ATOM 750	CD2	LEU A	51	4.539	0.898	3.675	1.00	0.00
ATOM 751	H	LEU A	51	1.012	1.500	7.044	1.00	0.00
ATOM 752	HA	LEU A	51	3.759	0.875	7.237	1.00	0.00
ATOM 753	1HB	LEU A	51	2.014	-0.126	5.672	1.00	0.00
ATOM 754	2HB	LEU A	51	2.245	1.293	4.669	1.00	0.00
ATOM 755	HG	LEU A	51	4.648	-0.300	5.423	1.00	0.00
ATOM 756	1HD1	LEU A	51	2.419	-1.240	3.709	1.00	0.00

ATOM 757	2HD1	LEU	A	51	3.558	-2.157	4.696	1.00	0.00
ATOM 758	3HD1	LEU	A	51	4.065	-1.512	3.135	1.00	0.00
ATOM 759	1HD2	LEU	A	51	5.044	0.322	2.914	1.00	0.00
ATOM 760	2HD2	LEU	A	51	5.253	1.533	4.178	1.00	0.00
ATOM 761	3HD2	LEU	A	51	3.773	1.507	3.219	1.00	0.00
ATOM 762	N	PHE	A	52	3.004	3.803	6.021	1.00	0.00
ATOM 763	CA	PHE	A	52	3.551	5.095	5.623	1.00	0.00
ATOM 764	C	PHE	A	52	4.295	5.751	6.781	1.00	0.00
ATOM 765	O	PHE	A	52	5.345	6.364	6.589	1.00	0.00
ATOM 766	CB	PHE	A	52	2.432	6.017	5.134	1.00	0.00
ATOM 767	CG	PHE	A	52	1.605	5.425	4.028	1.00	0.00
ATOM 768	CD1	PHE	A	52	2.208	4.757	2.974	1.00	0.00
ATOM 769	CD2	PHE	A	52	0.224	5.536	4.044	1.00	0.00
ATOM 770	CE1	PHE	A	52	1.449	4.212	1.956	1.00	0.00
ATOM 771	CE2	PHE	A	52	-0.541	4.993	3.029	1.00	0.00
ATOM 772	CZ	PHE	A	52	0.073	4.330	1.984	1.00	0.00
ATOM 773	H	PHE	A	52	2.037	3.713	6.152	1.00	0.00
ATOM 774	HA	PHE	A	52	4.245	4.926	4.813	1.00	0.00
ATOM 775	1HB	PHE	A	52	1.772	6.239	5.959	1.00	0.00
ATOM 776	2HB	PHE	A	52	2.867	6.936	4.770	1.00	0.00
ATOM 777	HD1	PHE	A	52	3.284	4.665	2.952	1.00	0.00
ATOM 778	HD2	PHE	A	52	-0.257	6.055	4.860	1.00	0.00
ATOM 779	HE1	PHE	A	52	1.931	3.695	1.140	1.00	0.00
ATOM 780	HE2	PHE	A	52	-1.616	5.087	3.052	1.00	0.00
ATOM 781	HZ	PHE	A	52	-0.522	3.905	1.189	1.00	0.00
ATOM 782	N	ARG	A	53	3.744	5.618	7.983	1.00	0.00
ATOM 783	CA	ARG	A	53	4.355	6.199	9.173	1.00	0.00

ATOM 784	C	ARG A	53	5.599	5.419	9.593	1.00	0.00
ATOM 785	O	ARG A	53	6.439	5.928	10.336	1.00	0.00
ATOM 786	CB	ARG A	53	3.347	6.230	10.323	1.00	0.00
ATOM 787	CG	ARG A	53	2.172	7.163	10.076	1.00	0.00
ATOM 788	CD	ARG A	53	0.964	6.773	10.914	1.00	0.00
ATOM 789	NE	ARG A	53	0.562	7.842	11.823	1.00	0.00
ATOM 790	CZ	ARG A	53	-0.251	7.664	12.862	1.00	0.00
ATOM 791	NH1	ARG A	53	-0.752	6.464	13.125	1.00	0.00
ATOM 792	NH2	ARG A	53	-0.565	8.691	13.640	1.00	0.00
ATOM 793	H	ARG A	53	2.906	5.118	8.071	1.00	0.00
ATOM 794	HA	ARG A	53	4.645	7.212	8.935	1.00	0.00
ATOM 795	1HB	ARG A	53	2.962	5.233	10.476	1.00	0.00
ATOM 796	2HB	ARG A	53	3.853	6.553	11.221	1.00	0.00
ATOM 797	1HG	ARG A	53	2.466	8.169	10.333	1.00	0.00
ATOM 798	2HG	ARG A	53	1.905	7.119	9.031	1.00	0.00
ATOM 799	1HD	ARG A	53	0.141	6.550	10.251	1.00	0.00
ATOM 800	2HD	ARG A	53	1.209	5.894	11.491	1.00	0.00
ATOM 801	HE	ARG A	53	0.918	8.740	11.653	1.00	0.00
ATOM 802	1HH1	ARG A	53	-0.519	5.686	12.541	1.00	0.00
ATOM 803	2HH1	ARG A	53	-1.363	6.337	13.906	1.00	0.00
ATOM 804	1HH2	ARG A	53	-0.191	9.598	13.447	1.00	0.00
ATOM 805	2HH2	ARG A	53	-1.176	8.559	14.421	1.00	0.00
ATOM 806	N	ASN A	54	5.715	4.182	9.119	1.00	0.00
ATOM 807	CA	ASN A	54	6.859	3.341	9.453	1.00	0.00
ATOM 808	C	ASN A	54	7.796	3.192	8.260	1.00	0.00
ATOM 809	O	ASN A	54	8.405	2.140	8.065	1.00	0.00
ATOM 810	CB	ASN A	54	6.385	1.962	9.919	1.00	0.00

ATOM 811	CG	ASN A	54	5.698	2.013	11.269	1.00	0.00
ATOM 812	OD1	ASN A	54	6.254	2.522	12.243	1.00	0.00
ATOM 813	ND2	ASN A	54	4.482	1.483	11.335	1.00	0.00
ATOM 814	H	ASN A	54	5.015	3.824	8.533	1.00	0.00
ATOM 815	HA	ASN A	54	7.395	3.817	10.259	1.00	0.00
ATOM 816	1HB	ASN A	54	5.689	1.566	9.197	1.00	0.00
ATOM 817	2HB	ASN A	54	7.237	1.302	9.993	1.00	0.00
ATOM 818	1HD2	ASN A	54	4.103	1.094	10.519	1.00	0.00
ATOM 819	2HD2	ASN A	54	4.015	1.501	12.196	1.00	0.00
ATOM 820	N	SER A	55	7.909	4.252	7.466	1.00	0.00
ATOM 821	CA	SER A	55	8.776	4.237	6.292	1.00	0.00
ATOM 822	C	SER A	55	9.689	5.459	6.275	1.00	0.00
ATOM 823	O	SER A	55	9.508	6.394	7.055	1.00	0.00
ATOM 824	CB	SER A	55	7.937	4.194	5.013	1.00	0.00
ATOM 825	OG	SER A	55	6.649	4.744	5.228	1.00	0.00
ATOM 826	H	SER A	55	7.400	5.062	7.674	1.00	0.00
ATOM 827	HA	SER A	55	9.386	3.348	6.342	1.00	0.00
ATOM 828	1HB	SER A	55	8.432	4.762	4.241	1.00	0.00
ATOM 829	2HB	SER A	55	7.828	3.169	4.692	1.00	0.00
ATOM 830	HG	SER A	55	6.701	5.702	5.203	1.00	0.00
ATOM 831	N	SER A	56	10.672	5.443	5.380	1.00	0.00
ATOM 832	CA	SER A	56	11.615	6.549	5.260	1.00	0.00
ATOM 833	C	SER A	56	10.918	7.811	4.761	1.00	0.00
ATOM 834	O	SER A	56	11.322	8.926	5.089	1.00	0.00
ATOM 835	CB	SER A	56	12.754	6.173	4.311	1.00	0.00
ATOM 836	OG	SER A	56	13.000	4.778	4.337	1.00	0.00
ATOM 837	H	SER A	56	10.765	4.670	4.787	1.00	0.00

ATOM 838	HA	SER A	56	12.024	6.743	6.240	1.00	0.00
ATOM 839	1HB	SER A	56	12.490	6.461	3.304	1.00	0.00
ATOM 840	2HB	SER A	56	13.653	6.692	4.609	1.00	0.00
ATOM 841	HG	SER A	56	13.023	4.474	5.247	1.00	0.00
ATOM 842	N	ILE A	57	9.868	7.627	3.967	1.00	0.00
ATOM 843	CA	ILE A	57	9.114	8.751	3.424	1.00	0.00
ATOM 844	C	ILE A	57	7.856	9.011	4.247	1.00	0.00
ATOM 845	O	ILE A	57	6.759	9.145	3.704	1.00	0.00
ATOM 846	CB	ILE A	57	8.716	8.505	1.956	1.00	0.00
ATOM 847	CG1	ILE A	57	7.932	7.198	1.831	1.00	0.00
ATOM 848	CG2	ILE A	57	9.952	8.477	1.069	1.00	0.00
ATOM 849	CD1	ILE A	57	7.307	6.996	0.467	1.00	0.00
ATOM 850	H	ILE A	57	9.592	6.715	3.742	1.00	0.00
ATOM 851	HA	ILE A	57	9.746	9.627	3.463	1.00	0.00
ATOM 852	HB	ILE A	57	8.090	9.323	1.634	1.00	0.00
ATOM 853	1HG1	ILE A	57	8.598	6.367	2.016	1.00	0.00
ATOM 854	2HG1	ILE A	57	7.139	7.189	2.564	1.00	0.00
ATOM 855	1HG2	ILE A	57	9.653	8.334	0.040	1.00	0.00
ATOM 856	2HG2	ILE A	57	10.595	7.665	1.373	1.00	0.00
ATOM 857	3HG2	ILE A	57	10.483	9.413	1.163	1.00	0.00
ATOM 858	1HD1	ILE A	57	6.758	7.883	0.189	1.00	0.00
ATOM 859	2HD1	ILE A	57	6.635	6.151	0.500	1.00	0.00
ATOM 860	3HD1	ILE A	57	8.083	6.812	-0.261	1.00	0.00
ATOM 861	N	LYS A	58	8.025	9.082	5.563	1.00	0.00
ATOM 862	CA	LYS A	58	6.906	9.327	6.467	1.00	0.00
ATOM 863	C	LYS A	58	6.762	10.815	6.771	1.00	0.00
ATOM 864	O	LYS A	58	6.455	11.201	7.899	1.00	0.00



ATOM 865	CB	LYS A	58	7.098	8.545	7.768	1.00	0.00
ATOM 866	CG	LYS A	58	8.363	8.924	8.522	1.00	0.00
ATOM 867	CD	LYS A	58	8.287	8.513	9.985	1.00	0.00
ATOM 868	CE	LYS A	58	8.230	9.724	10.903	1.00	0.00
ATOM 869	NZ	LYS A	58	9.485	10.522	10.849	1.00	0.00
ATOM 870	H	LYS A	58	8.924	8.965	5.935	1.00	0.00
ATOM 871	HA	LYS A	58	6.007	8.982	5.981	1.00	0.00
ATOM 872	1HB	LYS A	58	6.251	8.727	8.412	1.00	0.00
ATOM 873	2HB	LYS A	58	7.145	7.491	7.538	1.00	0.00
ATOM 874	1HG	LYS A	58	9.205	8.430	8.063	1.00	0.00
ATOM 875	2HG	LYS A	58	8.497	9.995	8.463	1.00	0.00
ATOM 876	1HD	LYS A	58	7.401	7.917	10.138	1.00	0.00
ATOM 877	2HD	LYS A	58	9.163	7.929	10.229	1.00	0.00
ATOM 878	1HE	LYS A	58	7.402	10.348	10.602	1.00	0.00
ATOM 879	2HE	LYS A	58	8.073	9.383	11.916	1.00	0.00
ATOM 880	1HZ	LYS A	58	9.391	11.376	11.434	1.00	0.00
ATOM 881	2HZ	LYS A	58	9.685	10.808	9.870	1.00	0.00
ATOM 882	3HZ	LYS A	58	10.284	9.958	11.203	1.00	0.00
ATOM 883	N	SER A	59	6.984	11.646	5.759	1.00	0.00
ATOM 884	CA	SER A	59	6.877	13.091	5.917	1.00	0.00
ATOM 885	C	SER A	59	6.125	13.711	4.744	1.00	0.00
ATOM 886	O	SER A	59	5.225	14.529	4.932	1.00	0.00
ATOM 887	CB	SER A	59	8.268	13.718	6.035	1.00	0.00
ATOM 888	OG	SER A	59	8.203	15.130	5.930	1.00	0.00
ATOM 889	H	SER A	59	7.225	11.279	4.883	1.00	0.00
ATOM 890	HA	SER A	59	6.327	13.285	6.825	1.00	0.00
ATOM 891	1HB	SER A	59	8.697	13.461	6.991	1.00	0.00

ATOM 892	2HB	SER A	59	8.899	13.339	5.244	1.00	0.00
ATOM 893	HG	SER A	59	8.823	15.431	5.262	1.00	0.00
ATOM 894	N	TYR A	60	6.499	13.314	3.532	1.00	0.00
ATOM 895	CA	TYR A	60	5.860	13.827	2.327	1.00	0.00
ATOM 896	C	TYR A	60	4.606	13.024	1.994	1.00	0.00
ATOM 897	O	TYR A	60	3.647	13.555	1.433	1.00	0.00
ATOM 898	CB	TYR A	60	6.835	13.784	1.150	1.00	0.00
ATOM 899	CG	TYR A	60	8.077	14.620	1.358	1.00	0.00
ATOM 900	CD1	TYR A	60	9.343	14.067	1.211	1.00	0.00
ATOM 901	CD2	TYR A	60	7.984	15.963	1.702	1.00	0.00
ATOM 902	CE1	TYR A	60	10.481	14.828	1.402	1.00	0.00
ATOM 903	CE2	TYR A	60	9.117	16.731	1.894	1.00	0.00
ATOM 904	CZ	TYR A	60	10.363	16.159	1.742	1.00	0.00
ATOM 905	OH	TYR A	60	11.493	16.920	1.932	1.00	0.00
ATOM 906	H	TYR A	60	7.223	12.658	3.446	1.00	0.00
ATOM 907	HA	TYR A	60	5.578	14.853	2.512	1.00	0.00
ATOM 908	1HB	TYR A	60	7.146	12.763	0.986	1.00	0.00
ATOM 909	2HB	TYR A	60	6.335	14.147	0.264	1.00	0.00
ATOM 910	HD1	TYR A	60	9.433	13.025	0.944	1.00	0.00
ATOM 911	HD2	TYR A	60	7.007	16.408	1.821	1.00	0.00
ATOM 912	HE1	TYR A	60	11.456	14.380	1.282	1.00	0.00
ATOM 913	HE2	TYR A	60	9.024	17.773	2.161	1.00	0.00
ATOM 914	HH	TYR A	60	11.465	17.685	1.354	1.00	0.00
ATOM 915	N	PHE A	61	4.621	11.741	2.344	1.00	0.00
ATOM 916	CA	PHE A	61	3.485	10.864	2.082	1.00	0.00
ATOM 917	C	PHE A	61	2.261	11.309	2.875	1.00	0.00
ATOM 918	O	PHE A	61	2.309	11.418	4.101	1.00	0.00

ATOM 919	CB	PHE A	61	3.839	9.419	2.437	1.00	0.00
ATOM 920	CG	PHE A	61	3.113	8.400	1.605	1.00	0.00
ATOM 921	CD1	PHE A	61	1.728	8.394	1.546	1.00	0.00
ATOM 922	CD2	PHE A	61	3.816	7.449	0.883	1.00	0.00
ATOM 923	CE1	PHE A	61	1.059	7.457	0.782	1.00	0.00
ATOM 924	CE2	PHE A	61	3.151	6.510	0.117	1.00	0.00
ATOM 925	CZ	PHE A	61	1.771	6.515	0.067	1.00	0.00
ATOM 926	H	PHE A	61	5.414	11.376	2.787	1.00	0.00
ATOM 927	HA	PHE A	61	3.258	10.921	1.028	1.00	0.00
ATOM 928	1HB	PHE A	61	4.898	9.269	2.294	1.00	0.00
ATOM 929	2HB	PHE A	61	3.592	9.240	3.474	1.00	0.00
ATOM 930	HD1	PHE A	61	1.172	9.132	2.105	1.00	0.00
ATOM 931	HD2	PHE A	61	4.895	7.445	0.922	1.00	0.00
ATOM 932	HE1	PHE A	61	-0.021	7.462	0.746	1.00	0.00
ATOM 933	HE2	PHE A	61	3.709	5.774	-0.441	1.00	0.00
ATOM 934	HZ	PHE A	61	1.249	5.782	-0.531	1.00	0.00
ATOM 935	N	SER A	62	1.165	11.566	2.169	1.00	0.00
ATOM 936	CA	SER A	62	-0.072	12.000	2.809	1.00	0.00
ATOM 937	C	SER A	62	-0.926	10.802	3.210	1.00	0.00
ATOM 938	O	SER A	62	-1.182	10.578	4.393	1.00	0.00
ATOM 939	CB	SER A	62	-0.863	12.914	1.871	1.00	0.00
ATOM 940	OG	SER A	62	-1.742	13.754	2.599	1.00	0.00
ATOM 941	H	SER A	62	1.188	11.461	1.195	1.00	0.00
ATOM 942	HA	SER A	62	0.191	12.553	3.699	1.00	0.00
ATOM 943	1HB	SER A	62	-0.177	13.532	1.312	1.00	0.00
ATOM 944	2HB	SER A	62	-1.443	12.311	1.189	1.00	0.00
ATOM 945	HG	SER A	62	-2.626	13.687	2.231	1.00	0.00

ATOM 946	N	ASP	A	63	-1.363	10.035	2.217	1.00	0.00
ATOM 947	CA	ASP	A	63	-2.189	8.859	2.467	1.00	0.00
ATOM 948	C	ASP	A	63	-2.438	8.084	1.177	1.00	0.00
ATOM 949	O	ASP	A	63	-1.929	8.445	0.115	1.00	0.00
ATOM 950	CB	ASP	A	63	-3.521	9.271	3.099	1.00	0.00
ATOM 951	CG	ASP	A	63	-3.804	8.523	4.387	1.00	0.00
ATOM 952	OD1	ASP	A	63	-3.977	9.187	5.432	1.00	0.00
ATOM 953	OD2	ASP	A	63	-3.854	7.276	4.353	1.00	0.00
ATOM 954	H	ASP	A	63	-1.125	10.264	1.294	1.00	0.00
ATOM 955	HA	ASP	A	63	-1.655	8.222	3.157	1.00	0.00
ATOM 956	1HB	ASP	A	63	-3.496	10.328	3.316	1.00	0.00
ATOM 957	2HB	ASP	A	63	-4.322	9.068	2.402	1.00	0.00
ATOM 958	N	CYS	A	64	-3.224	7.017	1.276	1.00	0.00
ATOM 959	CA	CYS	A	64	-3.542	6.191	0.117	1.00	0.00
ATOM 960	C	CYS	A	64	-5.028	6.273	-0.219	1.00	0.00
ATOM 961	O	CYS	A	64	-5.852	6.584	0.641	1.00	0.00
ATOM 962	CB	CYS	A	64	-3.142	4.737	0.378	1.00	0.00
ATOM 963	SG	CYS	A	64	-2.172	3.989	-0.951	1.00	0.00
ATOM 964	H	CYS	A	64	-3.600	6.780	2.149	1.00	0.00
ATOM 965	HA	CYS	A	64	-2.975	6.564	-0.722	1.00	0.00
ATOM 966	1HB	CYS	A	64	-2.552	4.690	1.281	1.00	0.00
ATOM 967	2HB	CYS	A	64	-4.035	4.142	0.509	1.00	0.00
ATOM 968	HG	CYS	A	64	-1.257	4.258	-0.838	1.00	0.00
ATOM 969	N	GLN	A	65	-5.362	5.993	-1.474	1.00	0.00
ATOM 970	CA	GLN	A	65	-6.748	6.035	-1.924	1.00	0.00
ATOM 971	C	GLN	A	65	-7.079	4.822	-2.786	1.00	0.00
ATOM 972	O	GLN	A	65	-6.866	4.832	-3.998	1.00	0.00

ATOM 973	CB	GLN A	65	-7.013	7.321	-2.711	1.00	0.00
ATOM 974	CG	GLN A	65	-8.449	7.457	-3.189	1.00	0.00
ATOM 975	CD	GLN A	65	-9.008	8.850	-2.971	1.00	0.00
ATOM 976	OE1	GLN A	65	-8.589	9.563	-2.060	1.00	0.00
ATOM 977	NE2	GLN A	65	-9.957	9.244	-3.811	1.00	0.00
ATOM 978	H	GLN A	65	-4.659	5.751	-2.113	1.00	0.00
ATOM 979	HA	GLN A	65	-7.381	6.024	-1.049	1.00	0.00
ATOM 980	1HB	GLN A	65	-6.783	8.168	-2.081	1.00	0.00
ATOM 981	2HB	GLN A	65	-6.365	7.340	-3.574	1.00	0.00
ATOM 982	1HG	GLN A	65	-8.486	7.232	-4.244	1.00	0.00
ATOM 983	2HG	GLN A	65	-9.063	6.750	-2.650	1.00	0.00
ATOM 984	1HE2	GLN A	65	-10.241	8.623	-4.514	1.00	0.00
ATOM 985	2HE2	GLN A	65	-10.336	10.140	-3.693	1.00	0.00
ATOM 986	N	VAL A	66	-7.602	3.777	-2.153	1.00	0.00
ATOM 987	CA	VAL A	66	-7.963	2.556	-2.863	1.00	0.00
ATOM 988	C	VAL A	66	-9.109	2.809	-3.839	1.00	0.00
ATOM 989	O	VAL A	66	-10.266	2.924	-3.439	1.00	0.00
ATOM 990	CB	VAL A	66	-8.366	1.434	-1.883	1.00	0.00
ATOM 991	CG1	VAL A	66	-9.552	1.862	-1.031	1.00	0.00
ATOM 992	CG2	VAL A	66	-8.674	0.148	-2.637	1.00	0.00
ATOM 993	H	VAL A	66	-7.750	3.828	-1.185	1.00	0.00
ATOM 994	HA	VAL A	66	-7.097	2.227	-3.418	1.00	0.00
ATOM 995	HB	VAL A	66	-7.530	1.247	-1.225	1.00	0.00
ATOM 996	1HG1	VAL A	66	-9.803	2.888	-1.250	1.00	0.00
ATOM 997	2HG1	VAL A	66	-9.296	1.769	0.014	1.00	0.00
ATOM 998	3HG1	VAL A	66	-10.400	1.229	-1.250	1.00	0.00
ATOM 999	1HG2	VAL A	66	-7.991	0.045	-3.468	1.00	0.00

ATOM 1000	2HG2	VAL	A	66	-9.688	0.181	-3.007	1.00	0.00
ATOM 1001	3HG2	VAL	A	66	-8.560	-0.695	-1.972	1.00	0.00
ATOM 1002	N	LEU	A	67	-8.776	2.896	-5.123	1.00	0.00
ATOM 1003	CA	LEU	A	67	-9.775	3.136	-6.157	1.00	0.00
ATOM 1004	C	LEU	A	67	-10.814	2.021	-6.179	1.00	0.00
ATOM 1005	O	LEU	A	67	-11.986	2.245	-5.871	1.00	0.00
ATOM 1006	CB	LEU	A	67	-9.105	3.251	-7.529	1.00	0.00
ATOM 1007	CG	LEU	A	67	-7.894	4.183	-7.583	1.00	0.00
ATOM 1008	CD1	LEU	A	67	-7.361	4.283	-9.004	1.00	0.00
ATOM 1009	CD2	LEU	A	67	-8.259	5.561	-7.051	1.00	0.00
ATOM 1010	H	LEU	A	67	-7.835	2.797	-5.381	1.00	0.00
ATOM 1011	HA	LEU	A	67	-10.270	4.068	-5.930	1.00	0.00
ATOM 1012	1HB	LEU	A	67	-8.787	2.264	-7.834	1.00	0.00
ATOM 1013	2HB	LEU	A	67	-9.838	3.609	-8.235	1.00	0.00
ATOM 1014	HG	LEU	A	67	-7.109	3.780	-6.959	1.00	0.00
ATOM 1015	1HD1	LEU	A	67	-7.760	5.168	-9.476	1.00	0.00
ATOM 1016	2HD1	LEU	A	67	-7.661	3.410	-9.563	1.00	0.00
ATOM 1017	3HD1	LEU	A	67	-6.282	4.342	-8.980	1.00	0.00
ATOM 1018	1HD2	LEU	A	67	-7.697	6.314	-7.583	1.00	0.00
ATOM 1019	2HD2	LEU	A	67	-8.024	5.615	-5.997	1.00	0.00
ATOM 1020	3HD2	LEU	A	67	-9.315	5.733	-7.193	1.00	0.00
ATOM 1021	N	ALA	A	68	-10.379	0.819	-6.543	1.00	0.00
ATOM 1022	CA	ALA	A	68	-11.273	-0.331	-6.603	1.00	0.00
ATOM 1023	C	ALA	A	68	-10.486	-1.636	-6.631	1.00	0.00
ATOM 1024	O	ALA	A	68	-9.263	-1.639	-6.497	1.00	0.00
ATOM 1025	CB	ALA	A	68	-12.178	-0.231	-7.821	1.00	0.00
ATOM 1026	H	ALA	A	68	-9.435	0.703	-6.776	1.00	0.00

ATOM 1027	HA	ALA	A	68	-11.894	-0.316	-5.720	1.00	0.00
ATOM 1028	1HB	ALA	A	68	-11.778	-0.842	-8.618	1.00	0.00
ATOM 1029	2HB	ALA	A	68	-12.230	0.796	-8.148	1.00	0.00
ATOM 1030	3HB	ALA	A	68	-13.168	-0.578	-7.563	1.00	0.00
ATOM 1031	N	PHE	A	69	-11.198	-2.746	-6.805	1.00	0.00
ATOM 1032	CA	PHE	A	69	-10.567	-4.060	-6.850	1.00	0.00
ATOM 1033	C	PHE	A	69	-10.673	-4.668	-8.245	1.00	0.00
ATOM 1034	O	PHE	A	69	-11.769	-4.939	-8.734	1.00	0.00
ATOM 1035	CB	PHE	A	69	-11.214	-4.992	-5.824	1.00	0.00
ATOM 1036	CG	PHE	A	69	-10.981	-4.570	-4.402	1.00	0.00
ATOM 1037	CD1	PHE	A	69	-9.699	-4.536	-3.876	1.00	0.00
ATOM 1038	CD2	PHE	A	69	-12.044	-4.209	-3.589	1.00	0.00
ATOM 1039	CE1	PHE	A	69	-9.481	-4.149	-2.567	1.00	0.00
ATOM 1040	CE2	PHE	A	69	-11.832	-3.821	-2.279	1.00	0.00
ATOM 1041	CZ	PHE	A	69	-10.549	-3.791	-1.768	1.00	0.00
ATOM 1042	H	PHE	A	69	-12.170	-2.678	-6.905	1.00	0.00
ATOM 1043	HA	PHE	A	69	-9.524	-3.935	-6.602	1.00	0.00
ATOM 1044	1HB	PHE	A	69	-12.280	-5.016	-5.992	1.00	0.00
ATOM 1045	2HB	PHE	A	69	-10.811	-5.986	-5.948	1.00	0.00
ATOM 1046	HD1	PHE	A	69	-8.863	-4.816	-4.501	1.00	0.00
ATOM 1047	HD2	PHE	A	69	-13.047	-4.233	-3.988	1.00	0.00
ATOM 1048	HE1	PHE	A	69	-8.477	-4.126	-2.170	1.00	0.00
ATOM 1049	HE2	PHE	A	69	-12.669	-3.541	-1.657	1.00	0.00
ATOM 1050	HZ	PHE	A	69	-10.382	-3.488	-0.745	1.00	0.00
ATOM 1051	N	ARG	A	70	-9.525	-4.879	-8.880	1.00	0.00
ATOM 1052	CA	ARG	A	70	-9.488	-5.455	-10.219	1.00	0.00
ATOM 1053	C	ARG	A	70	-9.706	-6.964	-10.168	1.00	0.00

ATOM	1054	O	ARG	A	70	-9.263	-7.634	-9.236	1.00	0.00
ATOM	1055	CB	ARG	A	70	-8.149	-5.146	-10.893	1.00	0.00
ATOM	1056	CG	ARG	A	70	-8.241	-5.034	-12.406	1.00	0.00
ATOM	1057	CD	ARG	A	70	-8.810	-3.690	-12.833	1.00	0.00
ATOM	1058	NE	ARG	A	70	-9.716	-3.815	-13.973	1.00	0.00
ATOM	1059	CZ	ARG	A	70	-10.467	-2.820	-14.436	1.00	0.00
ATOM	1060	NH1	ARG	A	70	-10.426	-1.624	-13.860	1.00	0.00
ATOM	1061	NH2	ARG	A	70	-11.263	-3.019	-15.477	1.00	0.00
ATOM	1062	H	ARG	A	70	-8.683	-4.642	-8.439	1.00	0.00
ATOM	1063	HA	ARG	A	70	-10.283	-5.008	-10.796	1.00	0.00
ATOM	1064	1HB	ARG	A	70	-7.773	-4.209	-10.507	1.00	0.00
ATOM	1065	2HB	ARG	A	70	-7.448	-5.931	-10.653	1.00	0.00
ATOM	1066	1HG	ARG	A	70	-7.253	-5.144	-12.826	1.00	0.00
ATOM	1067	2HG	ARG	A	70	-8.882	-5.821	-12.777	1.00	0.00
ATOM	1068	1HD	ARG	A	70	-9.351	-3.262	-12.002	1.00	0.00
ATOM	1069	2HD	ARG	A	70	-7.993	-3.037	-13.104	1.00	0.00
ATOM	1070	HE	ARG	A	70	-9.765	-4.687	-14.417	1.00	0.00
ATOM	1071	1HH1	ARG	A	70	-9.827	-1.467	-13.074	1.00	0.00
ATOM	1072	2HH1	ARG	A	70	-10.994	-0.880	-14.212	1.00	0.00
ATOM	1073	1HH2	ARG	A	70	-11.298	-3.918	-15.915	1.00	0.00
ATOM	1074	2HH2	ARG	A	70	-11.829	-2.271	-15.825	1.00	0.00
ATOM	1075	N	SER	A	71	-10.394	-7.491	-11.176	1.00	0.00
ATOM	1076	CA	SER	A	71	-10.672	-8.921	-11.245	1.00	0.00
ATOM	1077	C	SER	A	71	-9.853	-9.584	-12.349	1.00	0.00
ATOM	1078	O	SER	A	71	-9.731	-9.047	-13.450	1.00	0.00
ATOM	1079	CB	SER	A	71	-12.163	-9.162	-11.486	1.00	0.00
ATOM	1080	OG	SER	A	71	-12.623	-10.289	-10.761	1.00	0.00



ATOM 1081	H	SER A	71	-10.722	-6.905	-11.890	1.00	0.00
ATOM 1082	HA	SER A	71	-10.395	-9.359	-10.297	1.00	0.00
ATOM 1083	1HB	SER A	71	-12.721	-8.293	-11.169	1.00	0.00
ATOM 1084	2HB	SER A	71	-12.332	-9.332	-12.539	1.00	0.00
ATOM 1085	HG	SER A	71	-13.173	-10.833	-11.330	1.00	0.00
ATOM 1086	N	VAL A	72	-9.296	-10.751	-12.046	1.00	0.00
ATOM 1087	CA	VAL A	72	-8.489	-11.487	-13.012	1.00	0.00
ATOM 1088	C	VAL A	72	-9.292	-12.614	-13.652	1.00	0.00
ATOM 1089	O	VAL A	72	-10.110	-13.259	-12.995	1.00	0.00
ATOM 1090	CB	VAL A	72	-7.227	-12.080	-12.357	1.00	0.00
ATOM 1091	CG1	VAL A	72	-6.190	-10.994	-12.114	1.00	0.00
ATOM 1092	CG2	VAL A	72	-7.581	-12.791	-11.059	1.00	0.00
ATOM 1093	H	VAL A	72	-9.431	-11.127	-11.151	1.00	0.00
ATOM 1094	HA	VAL A	72	-8.180	-10.796	-13.782	1.00	0.00
ATOM 1095	HB	VAL A	72	-6.802	-12.806	-13.035	1.00	0.00
ATOM 1096	1HG1	VAL A	72	-5.673	-11.192	-11.187	1.00	0.00
ATOM 1097	2HG1	VAL A	72	-6.682	-10.034	-12.053	1.00	0.00
ATOM 1098	3HG1	VAL A	72	-5.481	-10.984	-12.928	1.00	0.00
ATOM 1099	1HG2	VAL A	72	-7.297	-12.173	-10.221	1.00	0.00
ATOM 1100	2HG2	VAL A	72	-7.053	-13.731	-11.009	1.00	0.00
ATOM 1101	3HG2	VAL A	72	-8.646	-12.973	-11.027	1.00	0.00
ATOM 1102	N	SER A	73	-9.053	-12.848	-14.938	1.00	0.00
ATOM 1103	CA	SER A	73	-9.754	-13.899	-15.668	1.00	0.00
ATOM 1104	C	SER A	73	-9.102	-15.257	-15.427	1.00	0.00
ATOM 1105	O	SER A	73	-9.770	-16.291	-15.464	1.00	0.00
ATOM 1106	CB	SER A	73	-9.768	-13.585	-17.165	1.00	0.00
ATOM 1107	OG	SER A	73	-10.893	-12.797	-17.511	1.00	0.00

ATOM 1108	H	SER A	73	-8.390	-12.300	-15.409	1.00	0.00
ATOM 1109	HA	SER A	73	-10.770	-13.931	-15.307	1.00	0.00
ATOM 1110	1HB	SER A	73	-8.871	-13.043	-17.427	1.00	0.00
ATOM 1111	2HB	SER A	73	-9.806	-14.509	-17.724	1.00	0.00
ATOM 1112	N	ASN A	74	-7.795	-15.248	-15.182	1.00	0.00
ATOM 1113	CA	ASN A	74	-7.054	-16.480	-14.936	1.00	0.00
ATOM 1114	C	ASN A	74	-7.637	-17.240	-13.748	1.00	0.00
ATOM 1115	O	ASN A	74	-8.200	-18.323	-13.907	1.00	0.00
ATOM 1116	CB	ASN A	74	-5.577	-16.169	-14.683	1.00	0.00
ATOM 1117	CG	ASN A	74	-4.662	-17.277	-15.167	1.00	0.00
ATOM 1118	OD1	ASN A	74	-3.836	-17.072	-16.057	1.00	0.00
ATOM 1119	ND2	ASN A	74	-4.806	-18.461	-14.582	1.00	0.00
ATOM 1120	H	ASN A	74	-7.318	-14.392	-15.166	1.00	0.00
ATOM 1121	HA	ASN A	74	-7.137	-17.097	-15.818	1.00	0.00
ATOM 1122	1HB	ASN A	74	-5.314	-15.259	-15.202	1.00	0.00
ATOM 1123	2HB	ASN A	74	-5.420	-16.034	-13.623	1.00	0.00
ATOM 1124	1HD2	ASN A	74	-5.485	-18.551	-13.881	1.00	0.00
ATOM 1125	2HD2	ASN A	74	-4.228	-19.195	-14.876	1.00	0.00
ATOM 1126	N	ASN A	75	-7.499	-16.664	-12.558	1.00	0.00
ATOM 1127	CA	ASN A	75	-8.013	-17.287	-11.343	1.00	0.00
ATOM 1128	C	ASN A	75	-9.039	-16.387	-10.664	1.00	0.00
ATOM 1129	O	ASN A	75	-8.908	-15.163	-10.673	1.00	0.00
ATOM 1130	CB	ASN A	75	-6.863	-17.596	-10.379	1.00	0.00
ATOM 1131	CG	ASN A	75	-6.662	-19.086	-10.177	1.00	0.00
ATOM 1132	OD1	ASN A	75	-6.348	-19.814	-11.118	1.00	0.00
ATOM 1133	ND2	ASN A	75	-6.844	-19.546	-8.944	1.00	0.00
ATOM 1134	H	ASN A	75	-7.042	-15.800	-12.495	1.00	0.00

ATOM	1135	HA	ASN	A	75	-8.493	-18.213	-11.623	1.00	0.00
ATOM	1136	1HB	ASN	A	75	-5.949	-17.179	-10.773	1.00	0.00
ATOM	1137	2HB	ASN	A	75	-7.075	-17.146	-9.419	1.00	0.00
ATOM	1138	1HD2	ASN	A	75	-7.094	-18.908	-8.245	1.00	0.00
ATOM	1139	2HD2	ASN	A	75	-6.720	-20.505	-8.786	1.00	0.00
ATOM	1140	N	ASN	A	76	-10.060	-16.999	-10.075	1.00	0.00
ATOM	1141	CA	ASN	A	76	-11.109	-16.251	-9.392	1.00	0.00
ATOM	1142	C	ASN	A	76	-10.868	-16.226	-7.886	1.00	0.00
ATOM	1143	O	ASN	A	76	-11.812	-16.181	-7.096	1.00	0.00
ATOM	1144	CB	ASN	A	76	-12.479	-16.864	-9.693	1.00	0.00
ATOM	1145	CG	ASN	A	76	-13.188	-16.162	-10.834	1.00	0.00
ATOM	1146	OD1	ASN	A	76	-14.394	-15.924	-10.778	1.00	0.00
ATOM	1147	ND2	ASN	A	76	-12.440	-15.825	-11.878	1.00	0.00
ATOM	1148	H	ASN	A	76	-10.110	-17.978	-10.101	1.00	0.00
ATOM	1149	HA	ASN	A	76	-11.089	-15.238	-9.764	1.00	0.00
ATOM	1150	1HB	ASN	A	76	-12.351	-17.902	-9.959	1.00	0.00
ATOM	1151	2HB	ASN	A	76	-13.100	-16.796	-8.811	1.00	0.00
ATOM	1152	1HD2	ASN	A	76	-11.485	-16.045	-11.854	1.00	0.00
ATOM	1153	2HD2	ASN	A	76	-12.872	-15.369	-12.630	1.00	0.00
ATOM	1154	N	ASN	A	77	-9.598	-16.255	-7.494	1.00	0.00
ATOM	1155	CA	ASN	A	77	-9.235	-16.234	-6.081	1.00	0.00
ATOM	1156	C	ASN	A	77	-8.235	-15.117	-5.784	1.00	0.00
ATOM	1157	O	ASN	A	77	-7.556	-15.139	-4.758	1.00	0.00
ATOM	1158	CB	ASN	A	77	-8.644	-17.583	-5.667	1.00	0.00
ATOM	1159	CG	ASN	A	77	-8.577	-17.746	-4.161	1.00	0.00
ATOM	1160	OD1	ASN	A	77	-7.501	-17.698	-3.566	1.00	0.00
ATOM	1161	ND2	ASN	A	77	-9.733	-17.942	-3.536	1.00	0.00

ATOM	1162	H	ASN	A	77	-8.889	-16.289	-8.170	1.00	0.00
ATOM	1163	HA	ASN	A	77	-10.134	-16.056	-5.510	1.00	0.00
ATOM	1164	1HB	ASN	A	77	-9.256	-18.375	-6.069	1.00	0.00
ATOM	1165	2HB	ASN	A	77	-7.643	-17.668	-6.065	1.00	0.00
ATOM	1166	1HD2	ASN	A	77	-10.551	-17.969	-4.074	1.00	0.00
ATOM	1167	2HD2	ASN	A	77	-9.719	-18.051	-2.562	1.00	0.00
ATOM	1168	N	HIS	A	78	-8.151	-14.139	-6.684	1.00	0.00
ATOM	1169	CA	HIS	A	78	-7.235	-13.018	-6.509	1.00	0.00
ATOM	1170	C	HIS	A	78	-7.991	-11.693	-6.523	1.00	0.00
ATOM	1171	O	HIS	A	78	-9.217	-11.668	-6.633	1.00	0.00
ATOM	1172	CB	HIS	A	78	-6.171	-13.022	-7.609	1.00	0.00
ATOM	1173	CG	HIS	A	78	-5.210	-14.167	-7.508	1.00	0.00
ATOM	1174	ND1	HIS	A	78	-4.352	-14.520	-8.528	1.00	0.00
ATOM	1175	CD2	HIS	A	78	-4.974	-15.039	-6.500	1.00	0.00
ATOM	1176	CE1	HIS	A	78	-3.630	-15.561	-8.151	1.00	0.00
ATOM	1177	NE2	HIS	A	78	-3.987	-15.895	-6.925	1.00	0.00
ATOM	1178	H	HIS	A	78	-8.718	-14.172	-7.482	1.00	0.00
ATOM	1179	HA	HIS	A	78	-6.750	-13.132	-5.551	1.00	0.00
ATOM	1180	1HB	HIS	A	78	-6.658	-13.081	-8.570	1.00	0.00
ATOM	1181	2HB	HIS	A	78	-5.603	-12.105	-7.554	1.00	0.00
ATOM	1182	HD1	HIS	A	78	-4.282	-14.075	-9.398	1.00	0.00
ATOM	1183	HD2	HIS	A	78	-5.468	-15.057	-5.539	1.00	0.00
ATOM	1184	HE1	HIS	A	78	-2.875	-16.055	-8.745	1.00	0.00
ATOM	1185	HE2	HIS	A	78	-3.680	-16.692	-6.445	1.00	0.00
ATOM	1186	N	THR	A	79	-7.252	-10.595	-6.410	1.00	0.00
ATOM	1187	CA	THR	A	79	-7.854	-9.267	-6.410	1.00	0.00
ATOM	1188	C	THR	A	79	-6.809	-8.195	-6.707	1.00	0.00

ATOM 1189	O	THR A	79	-6.005	-7.842	-5.844	1.00	0.00
ATOM 1190	CB	THR A	79	-8.519	-8.987	-5.061	1.00	0.00
ATOM 1191	OG1	THR A	79	-9.480	-9.982	-4.760	1.00	0.00
ATOM 1192	CG2	THR A	79	-9.214	-7.644	-5.004	1.00	0.00
ATOM 1193	H	THR A	79	-6.279	-10.679	-6.324	1.00	0.00
ATOM 1194	HA	THR A	79	-8.605	-9.244	-7.183	1.00	0.00
ATOM 1195	HB	THR A	79	-7.763	-9.002	-4.289	1.00	0.00
ATOM 1196	HG1	THR A	79	-9.036	-10.772	-4.444	1.00	0.00
ATOM 1197	1HG2	THR A	79	-8.855	-7.089	-4.150	1.00	0.00
ATOM 1198	2HG2	THR A	79	-10.280	-7.795	-4.914	1.00	0.00
ATOM 1199	3HG2	THR A	79	-9.003	-7.091	-5.908	1.00	0.00
ATOM 1200	N	GLY A	80	-6.829	-7.681	-7.932	1.00	0.00
ATOM 1201	CA	GLY A	80	-5.880	-6.654	-8.321	1.00	0.00
ATOM 1202	C	GLY A	80	-6.172	-5.319	-7.667	1.00	0.00
ATOM 1203	O	GLY A	80	-7.028	-4.566	-8.132	1.00	0.00
ATOM 1204	H	GLY A	80	-7.493	-8.001	-8.577	1.00	0.00
ATOM 1205	1HA	GLY A	80	-4.888	-6.971	-8.038	1.00	0.00
ATOM 1206	2HA	GLY A	80	-5.917	-6.532	-9.393	1.00	0.00
ATOM 1207	N	VAL A	81	-5.461	-5.025	-6.582	1.00	0.00
ATOM 1208	CA	VAL A	81	-5.652	-3.772	-5.861	1.00	0.00
ATOM 1209	C	VAL A	81	-5.336	-2.574	-6.751	1.00	0.00
ATOM 1210	O	VAL A	81	-4.304	-2.538	-7.420	1.00	0.00
ATOM 1211	CB	VAL A	81	-4.768	-3.711	-4.599	1.00	0.00
ATOM 1212	CG1	VAL A	81	-5.007	-2.415	-3.832	1.00	0.00
ATOM 1213	CG2	VAL A	81	-5.026	-4.919	-3.711	1.00	0.00
ATOM 1214	H	VAL A	81	-4.794	-5.667	-6.258	1.00	0.00
ATOM 1215	HA	VAL A	81	-6.686	-3.718	-5.555	1.00	0.00

ATOM 1216	HB	VAL A	81	-3.734	-3.734	-4.907	1.00	0.00
ATOM 1217	1HG1	VAL A	81	-5.654	-1.769	-4.408	1.00	0.00
ATOM 1218	2HG1	VAL A	81	-4.063	-1.918	-3.662	1.00	0.00
ATOM 1219	3HG1	VAL A	81	-5.473	-2.637	-2.883	1.00	0.00
ATOM 1220	1HG2	VAL A	81	-5.738	-4.656	-2.943	1.00	0.00
ATOM 1221	2HG2	VAL A	81	-4.101	-5.234	-3.252	1.00	0.00
ATOM 1222	3HG2	VAL A	81	-5.424	-5.727	-4.309	1.00	0.00
ATOM 1223	N	ASP A	82	-6.233	-1.593	-6.746	1.00	0.00
ATOM 1224	CA	ASP A	82	-6.054	-0.386	-7.544	1.00	0.00
ATOM 1225	C	ASP A	82	-6.077	0.850	-6.652	1.00	0.00
ATOM 1226	O	ASP A	82	-7.090	1.545	-6.562	1.00	0.00
ATOM 1227	CB	ASP A	82	-7.147	-0.286	-8.610	1.00	0.00
ATOM 1228	CG	ASP A	82	-6.690	-0.813	-9.957	1.00	0.00
ATOM 1229	OD1	ASP A	82	-6.354	-2.014	-10.041	1.00	0.00
ATOM 1230	OD2	ASP A	82	-6.669	-0.027	-10.926	1.00	0.00
ATOM 1231	H	ASP A	82	-7.033	-1.680	-6.187	1.00	0.00
ATOM 1232	HA	ASP A	82	-5.092	-0.448	-8.030	1.00	0.00
ATOM 1233	1HB	ASP A	82	-8.005	-0.859	-8.292	1.00	0.00
ATOM 1234	2HB	ASP A	82	-7.433	0.748	-8.728	1.00	0.00
ATOM 1235	N	SER A	83	-4.957	1.114	-5.990	1.00	0.00
ATOM 1236	CA	SER A	83	-4.848	2.261	-5.098	1.00	0.00
ATOM 1237	C	SER A	83	-4.012	3.368	-5.730	1.00	0.00
ATOM 1238	O	SER A	83	-3.459	3.200	-6.816	1.00	0.00
ATOM 1239	CB	SER A	83	-4.232	1.832	-3.765	1.00	0.00
ATOM 1240	OG	SER A	83	-3.349	0.738	-3.939	1.00	0.00
ATOM 1241	H	SER A	83	-4.185	0.520	-6.101	1.00	0.00
ATOM 1242	HA	SER A	83	-5.844	2.636	-4.919	1.00	0.00

ATOM	1243	1HB	SER	A	83	-3.682	2.658	-3.342	1.00	0.00
ATOM	1244	2HB	SER	A	83	-5.018	1.539	-3.085	1.00	0.00
ATOM	1245	HG	SER	A	83	-3.348	0.197	-3.146	1.00	0.00
ATOM	1246	N	LEU	A	84	-3.929	4.502	-5.041	1.00	0.00
ATOM	1247	CA	LEU	A	84	-3.163	5.642	-5.534	1.00	0.00
ATOM	1248	C	LEU	A	84	-2.300	6.236	-4.426	1.00	0.00
ATOM	1249	O	LEU	A	84	-2.817	6.784	-3.452	1.00	0.00
ATOM	1250	CB	LEU	A	84	-4.107	6.716	-6.084	1.00	0.00
ATOM	1251	CG	LEU	A	84	-3.536	7.587	-7.209	1.00	0.00
ATOM	1252	CD1	LEU	A	84	-2.128	8.058	-6.874	1.00	0.00
ATOM	1253	CD2	LEU	A	84	-3.543	6.829	-8.527	1.00	0.00
ATOM	1254	H	LEU	A	84	-4.395	4.575	-4.183	1.00	0.00
ATOM	1255	HA	LEU	A	84	-2.522	5.295	-6.330	1.00	0.00
ATOM	1256	1HB	LEU	A	84	-4.996	6.224	-6.457	1.00	0.00
ATOM	1257	2HB	LEU	A	84	-4.393	7.363	-5.269	1.00	0.00
ATOM	1258	HG	LEU	A	84	-4.158	8.462	-7.325	1.00	0.00
ATOM	1259	1HD1	LEU	A	84	-2.174	8.814	-6.104	1.00	0.00
ATOM	1260	2HD1	LEU	A	84	-1.668	8.470	-7.757	1.00	0.00
ATOM	1261	3HD1	LEU	A	84	-1.543	7.224	-6.523	1.00	0.00
ATOM	1262	1HD2	LEU	A	84	-4.441	7.072	-9.076	1.00	0.00
ATOM	1263	2HD2	LEU	A	84	-3.516	5.768	-8.332	1.00	0.00
ATOM	1264	3HD2	LEU	A	84	-2.678	7.112	-9.108	1.00	0.00
ATOM	1265	N	CYS	A	85	-0.984	6.133	-4.582	1.00	0.00
ATOM	1266	CA	CYS	A	85	-0.061	6.672	-3.592	1.00	0.00
ATOM	1267	C	CYS	A	85	-0.173	8.192	-3.533	1.00	0.00
ATOM	1268	O	CYS	A	85	0.628	8.906	-4.138	1.00	0.00
ATOM	1269	CB	CYS	A	85	1.381	6.272	-3.917	1.00	0.00

ATOM	1270	SG	CYS	A	85	1.583	4.545	-4.410	1.00	0.00
ATOM	1271	H	CYS	A	85	-0.628	5.691	-5.380	1.00	0.00
ATOM	1272	HA	CYS	A	85	-0.332	6.263	-2.631	1.00	0.00
ATOM	1273	1HB	CYS	A	85	1.742	6.887	-4.726	1.00	0.00
ATOM	1274	2HB	CYS	A	85	1.998	6.439	-3.045	1.00	0.00
ATOM	1275	HG	CYS	A	85	1.563	4.005	-3.616	1.00	0.00
ATOM	1276	N	ASN	A	86	-1.175	8.681	-2.810	1.00	0.00
ATOM	1277	CA	ASN	A	86	-1.394	10.118	-2.682	1.00	0.00
ATOM	1278	C	ASN	A	86	-0.311	10.761	-1.823	1.00	0.00
ATOM	1279	O	ASN	A	86	-0.042	10.313	-0.708	1.00	0.00
ATOM	1280	CB	ASN	A	86	-2.773	10.393	-2.078	1.00	0.00
ATOM	1281	CG	ASN	A	86	-3.837	10.598	-3.139	1.00	0.00
ATOM	1282	OD1	ASN	A	86	-3.582	11.202	-4.181	1.00	0.00
ATOM	1283	ND2	ASN	A	86	-5.038	10.095	-2.877	1.00	0.00
ATOM	1284	H	ASN	A	86	-1.784	8.063	-2.356	1.00	0.00
ATOM	1285	HA	ASN	A	86	-1.353	10.547	-3.671	1.00	0.00
ATOM	1286	1HB	ASN	A	86	-3.063	9.555	-1.462	1.00	0.00
ATOM	1287	2HB	ASN	A	86	-2.722	11.284	-1.468	1.00	0.00
ATOM	1288	1HD2	ASN	A	86	-5.169	9.628	-2.027	1.00	0.00
ATOM	1289	2HD2	ASN	A	86	-5.745	10.214	-3.547	1.00	0.00
ATOM	1290	N	PHE	A	87	0.307	11.814	-2.349	1.00	0.00
ATOM	1291	CA	PHE	A	87	1.362	12.518	-1.630	1.00	0.00
ATOM	1292	C	PHE	A	87	0.953	13.957	-1.333	1.00	0.00
ATOM	1293	O	PHE	A	87	0.186	14.563	-2.082	1.00	0.00
ATOM	1294	CB	PHE	A	87	2.658	12.502	-2.441	1.00	0.00
ATOM	1295	CG	PHE	A	87	3.521	11.302	-2.168	1.00	0.00
ATOM	1296	CD1	PHE	A	87	3.021	10.021	-2.336	1.00	0.00



ATOM	1297	CD2	PHE	A	87	4.831	11.456	-1.743	1.00	0.00
ATOM	1298	CE1	PHE	A	87	3.811	8.916	-2.085	1.00	0.00
ATOM	1299	CE2	PHE	A	87	5.625	10.355	-1.491	1.00	0.00
ATOM	1300	CZ	PHE	A	87	5.115	9.082	-1.662	1.00	0.00
ATOM	1301	H	PHE	A	87	0.048	12.123	-3.243	1.00	0.00
ATOM	1302	HA	PHE	A	87	1.526	12.003	-0.695	1.00	0.00
ATOM	1303	1HB	PHE	A	87	2.416	12.503	-3.493	1.00	0.00
ATOM	1304	2HB	PHE	A	87	3.233	13.386	-2.206	1.00	0.00
ATOM	1305	HD1	PHE	A	87	2.001	9.889	-2.667	1.00	0.00
ATOM	1306	HD2	PHE	A	87	5.230	12.450	-1.608	1.00	0.00
ATOM	1307	HE1	PHE	A	87	3.409	7.923	-2.220	1.00	0.00
ATOM	1308	HE2	PHE	A	87	6.645	10.488	-1.160	1.00	0.00
ATOM	1309	HZ	PHE	A	87	5.734	8.220	-1.467	1.00	0.00
ATOM	1310	N	SER	A	88	1.470	14.496	-0.235	1.00	0.00
ATOM	1311	CA	SER	A	88	1.161	15.865	0.164	1.00	0.00
ATOM	1312	C	SER	A	88	1.831	16.868	-0.773	1.00	0.00
ATOM	1313	O	SER	A	88	2.723	16.510	-1.541	1.00	0.00
ATOM	1314	CB	SER	A	88	1.615	16.110	1.604	1.00	0.00
ATOM	1315	OG	SER	A	88	0.535	15.973	2.510	1.00	0.00
ATOM	1316	H	SER	A	88	2.074	13.963	0.321	1.00	0.00
ATOM	1317	HA	SER	A	88	0.091	15.994	0.106	1.00	0.00
ATOM	1318	1HB	SER	A	88	2.380	15.395	1.866	1.00	0.00
ATOM	1319	2HB	SER	A	88	2.015	17.112	1.689	1.00	0.00
ATOM	1320	HG	SER	A	88	-0.177	16.564	2.253	1.00	0.00
ATOM	1321	N	PRO	A	89	1.409	18.144	-0.719	1.00	0.00
ATOM	1322	CA	PRO	A	89	1.976	19.197	-1.567	1.00	0.00
ATOM	1323	C	PRO	A	89	3.466	19.401	-1.312	1.00	0.00

ATOM 1324	O	PRO A	89	4.225	19.717	-2.227	1.00	0.00
ATOM 1325	CB	PRO A	89	1.188	20.452	-1.171	1.00	0.00
ATOM 1326	CG	PRO A	89	0.605	20.139	0.166	1.00	0.00
ATOM 1327	CD	PRO A	89	0.353	18.659	0.168	1.00	0.00
ATOM 1328	HA	PRO A	89	1.820	18.986	-2.615	1.00	0.00
ATOM 1329	1HB	PRO A	89	1.856	21.298	-1.121	1.00	0.00
ATOM 1330	2HB	PRO A	89	0.416	20.640	-1.902	1.00	0.00
ATOM 1331	1HG	PRO A	89	1.306	20.402	0.943	1.00	0.00
ATOM 1332	2HG	PRO A	89	-0.322	20.677	0.296	1.00	0.00
ATOM 1333	1HD	PRO A	89	0.456	18.260	1.166	1.00	0.00
ATOM 1334	2HD	PRO A	89	-0.626	18.440	-0.230	1.00	0.00
ATOM 1335	N	LEU A	90	3.878	19.214	-0.062	1.00	0.00
ATOM 1336	CA	LEU A	90	5.278	19.374	0.313	1.00	0.00
ATOM 1337	C	LEU A	90	6.163	18.395	-0.453	1.00	0.00
ATOM 1338	O	LEU A	90	7.343	18.659	-0.682	1.00	0.00
ATOM 1339	CB	LEU A	90	5.451	19.166	1.818	1.00	0.00
ATOM 1340	CG	LEU A	90	5.209	20.408	2.676	1.00	0.00
ATOM 1341	CD1	LEU A	90	3.726	20.568	2.977	1.00	0.00
ATOM 1342	CD2	LEU A	90	6.011	20.328	3.966	1.00	0.00
ATOM 1343	H	LEU A	90	3.225	18.961	0.624	1.00	0.00
ATOM 1344	HA	LEU A	90	5.576	20.382	0.062	1.00	0.00
ATOM 1345	1HB	LEU A	90	4.763	18.394	2.135	1.00	0.00
ATOM 1346	2HB	LEU A	90	6.458	18.822	2.000	1.00	0.00
ATOM 1347	HG	LEU A	90	5.535	21.283	2.132	1.00	0.00
ATOM 1348	1HD1	LEU A	90	3.603	20.997	3.960	1.00	0.00
ATOM 1349	2HD1	LEU A	90	3.246	19.602	2.942	1.00	0.00
ATOM 1350	3HD1	LEU A	90	3.279	21.221	2.241	1.00	0.00

ATOM	1351	1HD2	LEU	A	90	5.382	19.949	4.758	1.00	0.00
ATOM	1352	2HD2	LEU	A	90	6.368	21.312	4.231	1.00	0.00
ATOM	1353	3HD2	LEU	A	90	6.852	19.666	3.827	1.00	0.00
ATOM	1354	N	ALA	A	91	5.585	17.263	-0.847	1.00	0.00
ATOM	1355	CA	ALA	A	91	6.321	16.245	-1.587	1.00	0.00
ATOM	1356	C	ALA	A	91	6.914	16.816	-2.870	1.00	0.00
ATOM	1357	O	ALA	A	91	6.451	17.836	-3.381	1.00	0.00
ATOM	1358	CB	ALA	A	91	5.414	15.066	-1.905	1.00	0.00
ATOM	1359	H	ALA	A	91	4.641	17.109	-0.634	1.00	0.00
ATOM	1360	HA	ALA	A	91	7.124	15.891	-0.957	1.00	0.00
ATOM	1361	1HB	ALA	A	91	6.016	14.205	-2.158	1.00	0.00
ATOM	1362	2HB	ALA	A	91	4.777	15.316	-2.740	1.00	0.00
ATOM	1363	3HB	ALA	A	91	4.805	14.838	-1.042	1.00	0.00
ATOM	1364	N	ARG	A	92	7.941	16.150	-3.387	1.00	0.00
ATOM	1365	CA	ARG	A	92	8.600	16.587	-4.612	1.00	0.00
ATOM	1366	C	ARG	A	92	9.688	15.602	-5.025	1.00	0.00
ATOM	1367	O	ARG	A	92	9.865	15.317	-6.209	1.00	0.00
ATOM	1368	CB	ARG	A	92	9.200	17.983	-4.426	1.00	0.00
ATOM	1369	CG	ARG	A	92	9.629	18.640	-5.727	1.00	0.00
ATOM	1370	CD	ARG	A	92	8.432	19.013	-6.585	1.00	0.00
ATOM	1371	NE	ARG	A	92	7.742	20.198	-6.080	1.00	0.00
ATOM	1372	CZ	ARG	A	92	8.145	21.445	-6.311	1.00	0.00
ATOM	1373	NH1	ARG	A	92	9.234	21.677	-7.033	1.00	0.00
ATOM	1374	NH2	ARG	A	92	7.456	22.466	-5.817	1.00	0.00
ATOM	1375	H	ARG	A	92	8.263	15.342	-2.933	1.00	0.00
ATOM	1376	HA	ARG	A	92	7.855	16.627	-5.392	1.00	0.00
ATOM	1377	1HB	ARG	A	92	8.466	18.617	-3.951	1.00	0.00

ATOM 1378	2HB	ARG	A	92	10.065	17.906	-3.783	1.00	0.00
ATOM 1379	1HG	ARG	A	92	10.189	19.534	-5.500	1.00	0.00
ATOM 1380	2HG	ARG	A	92	10.255	17.952	-6.276	1.00	0.00
ATOM 1381	1HD	ARG	A	92	8.772	19.209	-7.591	1.00	0.00
ATOM 1382	2HD	ARG	A	92	7.740	18.183	-6.596	1.00	0.00
ATOM 1383	HE	ARG	A	92	6.936	20.056	-5.541	1.00	0.00
ATOM 1384	1HH1	ARG	A	92	9.758	20.913	-7.409	1.00	0.00
ATOM 1385	2HH1	ARG	A	92	9.530	22.617	-7.204	1.00	0.00
ATOM 1386	1HH2	ARG	A	92	6.635	22.297	-5.272	1.00	0.00
ATOM 1387	2HH2	ARG	A	92	7.758	23.403	-5.991	1.00	0.00
ATOM 1388	N	ARG	A	93	10.415	15.083	-4.040	1.00	0.00
ATOM 1389	CA	ARG	A	93	11.484	14.127	-4.301	1.00	0.00
ATOM 1390	C	ARG	A	93	10.935	12.704	-4.380	1.00	0.00
ATOM 1391	O	ARG	A	93	11.381	11.814	-3.656	1.00	0.00
ATOM 1392	CB	ARG	A	93	12.554	14.217	-3.211	1.00	0.00
ATOM 1393	CG	ARG	A	93	13.229	15.577	-3.131	1.00	0.00
ATOM 1394	CD	ARG	A	93	12.811	16.336	-1.881	1.00	0.00
ATOM 1395	NE	ARG	A	93	13.706	17.455	-1.595	1.00	0.00
ATOM 1396	CZ	ARG	A	93	14.966	17.313	-1.190	1.00	0.00
ATOM 1397	NH1	ARG	A	93	15.483	16.102	-1.021	1.00	0.00
ATOM 1398	NH2	ARG	A	93	15.711	18.383	-0.954	1.00	0.00
ATOM 1399	H	ARG	A	93	10.226	15.347	-3.116	1.00	0.00
ATOM 1400	HA	ARG	A	93	11.931	14.380	-5.252	1.00	0.00
ATOM 1401	1HB	ARG	A	93	12.096	14.008	-2.255	1.00	0.00
ATOM 1402	2HB	ARG	A	93	13.314	13.474	-3.406	1.00	0.00
ATOM 1403	1HG	ARG	A	93	14.299	15.438	-3.113	1.00	0.00
ATOM 1404	2HG	ARG	A	93	12.954	16.156	-4.000	1.00	0.00

ATOM	1405	1HD	ARG	A	93	11.810	16.716	-2.022	1.00	0.00
ATOM	1406	2HD	ARG	A	93	12.822	15.656	-1.042	1.00	0.00
ATOM	1407	HE	ARG	A	93	13.350	18.360	-1.711	1.00	0.00
ATOM	1408	1HH1	ARG	A	93	14.927	15.289	-1.198	1.00	0.00
ATOM	1409	2HH1	ARG	A	93	16.430	16.002	-0.717	1.00	0.00
ATOM	1410	1HH2	ARG	A	93	15.328	19.297	-1.080	1.00	0.00
ATOM	1411	2HH2	ARG	A	93	16.658	18.276	-0.650	1.00	0.00
ATOM	1412	N	VAL	A	94	9.964	12.500	-5.263	1.00	0.00
ATOM	1413	CA	VAL	A	94	9.352	11.187	-5.437	1.00	0.00
ATOM	1414	C	VAL	A	94	9.112	10.889	-6.914	1.00	0.00
ATOM	1415	O	VAL	A	94	8.633	11.744	-7.659	1.00	0.00
ATOM	1416	CB	VAL	A	94	8.013	11.082	-4.679	1.00	0.00
ATOM	1417	CG1	VAL	A	94	7.572	9.631	-4.572	1.00	0.00
ATOM	1418	CG2	VAL	A	94	8.125	11.712	-3.298	1.00	0.00
ATOM	1419	H	VAL	A	94	9.650	13.249	-5.811	1.00	0.00
ATOM	1420	HA	VAL	A	94	10.029	10.447	-5.035	1.00	0.00
ATOM	1421	HB	VAL	A	94	7.263	11.622	-5.238	1.00	0.00
ATOM	1422	1HG1	VAL	A	94	7.752	9.130	-5.513	1.00	0.00
ATOM	1423	2HG1	VAL	A	94	6.518	9.592	-4.341	1.00	0.00
ATOM	1424	3HG1	VAL	A	94	8.131	9.141	-3.790	1.00	0.00
ATOM	1425	1HG2	VAL	A	94	8.750	11.094	-2.670	1.00	0.00
ATOM	1426	2HG2	VAL	A	94	7.141	11.791	-2.859	1.00	0.00
ATOM	1427	3HG2	VAL	A	94	8.561	12.696	-3.385	1.00	0.00
ATOM	1428	N	ASP	A	95	9.448	9.673	-7.331	1.00	0.00
ATOM	1429	CA	ASP	A	95	9.269	9.266	-8.720	1.00	0.00
ATOM	1430	C	ASP	A	95	8.322	8.077	-8.824	1.00	0.00
ATOM	1431	O	ASP	A	95	7.255	8.167	-9.432	1.00	0.00

ATOM	1432	CB	ASP	A	95	10.618	8.914	-9.350	1.00	0.00
ATOM	1433	CG	ASP	A	95	11.580	10.085	-9.347	1.00	0.00
ATOM	1434	OD1	ASP	A	95	12.176	10.362	-8.285	1.00	0.00
ATOM	1435	OD2	ASP	A	95	11.739	10.726	-10.408	1.00	0.00
ATOM	1436	H	ASP	A	95	9.826	9.034	-6.691	1.00	0.00
ATOM	1437	HA	ASP	A	95	8.839	10.095	-9.255	1.00	0.00
ATOM	1438	1HB	ASP	A	95	11.067	8.103	-8.795	1.00	0.00
ATOM	1439	2HB	ASP	A	95	10.461	8.602	-10.372	1.00	0.00
ATOM	1440	N	ARG	A	96	8.723	6.964	-8.228	1.00	0.00
ATOM	1441	CA	ARG	A	96	7.916	5.748	-8.248	1.00	0.00
ATOM	1442	C	ARG	A	96	8.613	4.622	-7.490	1.00	0.00
ATOM	1443	O	ARG	A	96	7.987	3.910	-6.703	1.00	0.00
ATOM	1444	CB	ARG	A	96	7.646	5.313	-9.691	1.00	0.00
ATOM	1445	CG	ARG	A	96	8.888	5.304	-10.566	1.00	0.00
ATOM	1446	CD	ARG	A	96	8.532	5.140	-12.035	1.00	0.00
ATOM	1447	NE	ARG	A	96	9.634	4.567	-12.805	1.00	0.00
ATOM	1448	CZ	ARG	A	96	9.733	4.646	-14.130	1.00	0.00
ATOM	1449	NH1	ARG	A	96	8.799	5.272	-14.836	1.00	0.00
ATOM	1450	NH2	ARG	A	96	10.769	4.099	-14.751	1.00	0.00
ATOM	1451	H	ARG	A	96	9.584	6.959	-7.763	1.00	0.00
ATOM	1452	HA	ARG	A	96	6.976	5.965	-7.764	1.00	0.00
ATOM	1453	1HB	ARG	A	96	7.231	4.316	-9.681	1.00	0.00
ATOM	1454	2HB	ARG	A	96	6.927	5.988	-10.129	1.00	0.00
ATOM	1455	1HG	ARG	A	96	9.415	6.237	-10.437	1.00	0.00
ATOM	1456	2HG	ARG	A	96	9.524	4.484	-10.265	1.00	0.00
ATOM	1457	1HD	ARG	A	96	7.674	4.488	-12.113	1.00	0.00
ATOM	1458	2HD	ARG	A	96	8.287	6.109	-12.443	1.00	0.00

ATOM 1459	HE	ARG	A	96	10.338	4.098	-12.308	1.00	0.00
ATOM 1460	1HH1	ARG	A	96	8.015	5.687	-14.374	1.00	0.00
ATOM 1461	2HH1	ARG	A	96	8.879	5.328	-15.831	1.00	0.00
ATOM 1462	1HH2	ARG	A	96	11.476	3.627	-14.225	1.00	0.00
ATOM 1463	2HH2	ARG	A	96	10.843	4.158	-15.747	1.00	0.00
ATOM 1464	N	VAL	A	97	9.910	4.469	-7.730	1.00	0.00
ATOM 1465	CA	VAL	A	97	10.693	3.431	-7.071	1.00	0.00
ATOM 1466	C	VAL	A	97	10.698	3.623	-5.557	1.00	0.00
ATOM 1467	O	VAL	A	97	10.850	2.663	-4.801	1.00	0.00
ATOM 1468	CB	VAL	A	97	12.147	3.416	-7.580	1.00	0.00
ATOM 1469	CG1	VAL	A	97	12.905	2.230	-7.002	1.00	0.00
ATOM 1470	CG2	VAL	A	97	12.182	3.388	-9.101	1.00	0.00
ATOM 1471	H	VAL	A	97	10.352	5.069	-8.367	1.00	0.00
ATOM 1472	HA	VAL	A	97	10.243	2.477	-7.301	1.00	0.00
ATOM 1473	HB	VAL	A	97	12.634	4.321	-7.247	1.00	0.00
ATOM 1474	1HG1	VAL	A	97	13.422	2.536	-6.105	1.00	0.00
ATOM 1475	2HG1	VAL	A	97	13.621	1.871	-7.727	1.00	0.00
ATOM 1476	3HG1	VAL	A	97	12.207	1.440	-6.763	1.00	0.00
ATOM 1477	1HG2	VAL	A	97	12.925	4.087	-9.457	1.00	0.00
ATOM 1478	2HG2	VAL	A	97	11.213	3.666	-9.490	1.00	0.00
ATOM 1479	3HG2	VAL	A	97	12.433	2.393	-9.438	1.00	0.00
ATOM 1480	N	ALA	A	98	10.531	4.868	-5.120	1.00	0.00
ATOM 1481	CA	ALA	A	98	10.517	5.181	-3.695	1.00	0.00
ATOM 1482	C	ALA	A	98	9.417	4.409	-2.975	1.00	0.00
ATOM 1483	O	ALA	A	98	9.692	3.588	-2.100	1.00	0.00
ATOM 1484	CB	ALA	A	98	10.337	6.677	-3.489	1.00	0.00
ATOM 1485	H	ALA	A	98	10.415	5.591	-5.769	1.00	0.00

ATOM	1486	HA	ALA	A	98	11.474	4.896	-3.282	1.00	0.00
ATOM	1487	1HB	ALA	A	98	10.634	7.203	-4.384	1.00	0.00
ATOM	1488	2HB	ALA	A	98	10.950	7.002	-2.660	1.00	0.00
ATOM	1489	3HB	ALA	A	98	9.301	6.889	-3.273	1.00	0.00
ATOM	1490	N	ILE	A	99	8.170	4.678	-3.347	1.00	0.00
ATOM	1491	CA	ILE	A	99	7.028	4.008	-2.736	1.00	0.00
ATOM	1492	C	ILE	A	99	7.040	2.512	-3.040	1.00	0.00
ATOM	1493	O	ILE	A	99	6.462	1.715	-2.302	1.00	0.00
ATOM	1494	CB	ILE	A	99	5.695	4.613	-3.222	1.00	0.00
ATOM	1495	CG1	ILE	A	99	5.697	6.131	-3.029	1.00	0.00
ATOM	1496	CG2	ILE	A	99	4.524	3.983	-2.480	1.00	0.00
ATOM	1497	CD1	ILE	A	99	4.860	6.873	-4.048	1.00	0.00
ATOM	1498	H	ILE	A	99	8.015	5.342	-4.050	1.00	0.00
ATOM	1499	HA	ILE	A	99	7.094	4.148	-1.667	1.00	0.00
ATOM	1500	HB	ILE	A	99	5.584	4.391	-4.272	1.00	0.00
ATOM	1501	1HG1	ILE	A	99	5.308	6.363	-2.050	1.00	0.00
ATOM	1502	2HG1	ILE	A	99	6.711	6.495	-3.103	1.00	0.00
ATOM	1503	1HG2	ILE	A	99	4.862	3.614	-1.523	1.00	0.00
ATOM	1504	2HG2	ILE	A	99	4.126	3.166	-3.063	1.00	0.00
ATOM	1505	3HG2	ILE	A	99	3.754	4.725	-2.329	1.00	0.00
ATOM	1506	1HD1	ILE	A	99	5.036	6.456	-5.029	1.00	0.00
ATOM	1507	2HD1	ILE	A	99	5.132	7.917	-4.045	1.00	0.00
ATOM	1508	3HD1	ILE	A	99	3.815	6.771	-3.796	1.00	0.00
ATOM	1509	N	TYR	A	100	7.703	2.137	-4.130	1.00	0.00
ATOM	1510	CA	TYR	A	100	7.790	0.737	-4.529	1.00	0.00
ATOM	1511	C	TYR	A	100	8.803	-0.011	-3.668	1.00	0.00
ATOM	1512	O	TYR	A	100	8.537	-1.119	-3.200	1.00	0.00



ATOM	1513	CB	TYR A 100	8.180	0.630	-6.003	1.00	0.00
ATOM	1514	CG	TYR A 100	8.184	-0.789	-6.529	1.00	0.00
ATOM	1515	CD1	TYR A 100	9.353	-1.370	-7.005	1.00	0.00
ATOM	1516	CD2	TYR A 100	7.019	-1.545	-6.548	1.00	0.00
ATOM	1517	CE1	TYR A 100	9.360	-2.666	-7.485	1.00	0.00
ATOM	1518	CE2	TYR A 100	7.018	-2.841	-7.027	1.00	0.00
ATOM	1519	CZ	TYR A 100	8.191	-3.397	-7.494	1.00	0.00
ATOM	1520	OH	TYR A 100	8.194	-4.688	-7.971	1.00	0.00
ATOM	1521	H	TYR A 100	8.144	2.818	-4.680	1.00	0.00
ATOM	1522	HA	TYR A 100	6.816	0.292	-4.389	1.00	0.00
ATOM	1523	1HB	TYR A 100	7.482	1.201	-6.596	1.00	0.00
ATOM	1524	2HB	TYR A 100	9.173	1.036	-6.135	1.00	0.00
ATOM	1525	HD1	TYR A 100	10.267	-0.795	-6.997	1.00	0.00
ATOM	1526	HD2	TYR A 100	6.103	-1.107	-6.182	1.00	0.00
ATOM	1527	HE1	TYR A 100	10.278	-3.102	-7.850	1.00	0.00
ATOM	1528	HE2	TYR A 100	6.102	-3.414	-7.033	1.00	0.00
ATOM	1529	HH	TYR A 100	7.669	-4.734	-8.774	1.00	0.00
ATOM	1530	N	GLU A 101	9.964	0.601	-3.463	1.00	0.00
ATOM	1531	CA	GLU A 101	11.018	-0.007	-2.661	1.00	0.00
ATOM	1532	C	GLU A 101	10.667	0.035	-1.176	1.00	0.00
ATOM	1533	O	GLU A 101	10.832	-0.953	-0.462	1.00	0.00
ATOM	1534	CB	GLU A 101	12.349	0.711	-2.902	1.00	0.00
ATOM	1535	CG	GLU A 101	13.123	0.169	-4.093	1.00	0.00
ATOM	1536	CD	GLU A 101	14.606	0.029	-3.809	1.00	0.00
ATOM	1537	OE1	GLU A 101	14.969	-0.785	-2.934	1.00	0.00
ATOM	1538	OE2	GLU A 101	15.404	0.732	-4.463	1.00	0.00
ATOM	1539	H	GLU A 101	10.116	1.483	-3.864	1.00	0.00

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ATOM 1540	HA	GLU A 101	11.116	-1.037	-2.966	1.00	0.00
ATOM 1541	1HB	GLU A 101	12.154	1.759	-3.074	1.00	0.00
ATOM 1542	2HB	GLU A 101	12.964	0.607	-2.022	1.00	0.00
ATOM 1543	1HG	GLU A 101	12.729	-0.801	-4.351	1.00	0.00
ATOM 1544	2HG	GLU A 101	12.993	0.843	-4.927	1.00	0.00
ATOM 1545	N	GLU A 102	10.184	1.186	-0.719	1.00	0.00
ATOM 1546	CA	GLU A 102	9.809	1.355	0.680	1.00	0.00
ATOM 1547	C	GLU A 102	8.742	0.343	1.085	1.00	0.00
ATOM 1548	O	GLU A 102	8.755	-0.176	2.202	1.00	0.00
ATOM 1549	CB	GLU A 102	9.299	2.777	0.923	1.00	0.00
ATOM 1550	CG	GLU A 102	10.349	3.707	1.510	1.00	0.00
ATOM 1551	CD	GLU A 102	11.206	4.364	0.445	1.00	0.00
ATOM 1552	OE1	GLU A 102	12.362	3.932	0.264	1.00	0.00
ATOM 1553	OE2	GLU A 102	10.718	5.311	-0.208	1.00	0.00
ATOM 1554	H	GLU A 102	10.074	1.938	-1.336	1.00	0.00
ATOM 1555	HA	GLU A 102	10.691	1.191	1.281	1.00	0.00
ATOM 1556	1HB	GLU A 102	8.967	3.193	-0.016	1.00	0.00
ATOM 1557	2HB	GLU A 102	8.464	2.737	1.606	1.00	0.00
ATOM 1558	1HG	GLU A 102	9.851	4.480	2.076	1.00	0.00
ATOM 1559	2HG	GLU A 102	10.990	3.137	2.166	1.00	0.00
ATOM 1560	N	PHE A 103	7.820	0.065	0.169	1.00	0.00
ATOM 1561	CA	PHE A 103	6.746	-0.886	0.430	1.00	0.00
ATOM 1562	C	PHE A 103	7.273	-2.317	0.420	1.00	0.00
ATOM 1563	O	PHE A 103	6.956	-3.111	1.306	1.00	0.00
ATOM 1564	CB	PHE A 103	5.636	-0.731	-0.613	1.00	0.00
ATOM 1565	CG	PHE A 103	4.443	-1.605	-0.354	1.00	0.00
ATOM 1566	CD1	PHE A 103	4.183	-2.702	-1.159	1.00	0.00

ATOM	1567	CD2	PHE A 103	3.580	-1.328	0.694	1.00	0.00
ATOM	1568	CE1	PHE A 103	3.085	-3.507	-0.924	1.00	0.00
ATOM	1569	CE2	PHE A 103	2.480	-2.130	0.934	1.00	0.00
ATOM	1570	CZ	PHE A 103	2.232	-3.221	0.124	1.00	0.00
ATOM	1571	H	PHE A 103	7.863	0.510	-0.703	1.00	0.00
ATOM	1572	HA	PHE A 103	6.342	-0.670	1.407	1.00	0.00
ATOM	1573	1HB	PHE A 103	5.301	0.295	-0.620	1.00	0.00
ATOM	1574	2HB	PHE A 103	6.030	-0.984	-1.587	1.00	0.00
ATOM	1575	HD1	PHE A 103	4.849	-2.928	-1.979	1.00	0.00
ATOM	1576	HD2	PHE A 103	3.772	-0.475	1.328	1.00	0.00
ATOM	1577	HE1	PHE A 103	2.893	-4.361	-1.559	1.00	0.00
ATOM	1578	HE2	PHE A 103	1.814	-1.904	1.754	1.00	0.00
ATOM	1579	HZ	PHE A 103	1.373	-3.849	0.309	1.00	0.00
ATOM	1580	N	LEU A 104	8.077	-2.638	-0.587	1.00	0.00
ATOM	1581	CA	LEU A 104	8.649	-3.974	-0.713	1.00	0.00
ATOM	1582	C	LEU A 104	9.505	-4.320	0.501	1.00	0.00
ATOM	1583	O	LEU A 104	9.561	-5.474	0.924	1.00	0.00
ATOM	1584	CB	LEU A 104	9.490	-4.072	-1.988	1.00	0.00
ATOM	1585	CG	LEU A 104	8.688	-4.172	-3.287	1.00	0.00
ATOM	1586	CD1	LEU A 104	9.459	-3.547	-4.440	1.00	0.00
ATOM	1587	CD2	LEU A 104	8.351	-5.624	-3.593	1.00	0.00
ATOM	1588	H	LEU A 104	8.292	-1.961	-1.261	1.00	0.00
ATOM	1589	HA	LEU A 104	7.834	-4.679	-0.777	1.00	0.00
ATOM	1590	1HB	LEU A 104	10.121	-3.196	-2.045	1.00	0.00
ATOM	1591	2HB	LEU A 104	10.121	-4.945	-1.912	1.00	0.00
ATOM	1592	HG	LEU A 104	7.761	-3.630	-3.173	1.00	0.00
ATOM	1593	1HD1	LEU A 104	8.775	-3.013	-5.083	1.00	0.00

ATOM	1594	2HD1	LEU	A	104	9.953	-4.323	-5.006	1.00	0.00
ATOM	1595	3HD1	LEU	A	104	10.196	-2.860	-4.049	1.00	0.00
ATOM	1596	1HD2	LEU	A	104	9.006	-5.990	-4.370	1.00	0.00
ATOM	1597	2HD2	LEU	A	104	7.326	-5.694	-3.924	1.00	0.00
ATOM	1598	3HD2	LEU	A	104	8.482	-6.221	-2.702	1.00	0.00
ATOM	1599	N	ARG	A	105	10.173	-3.313	1.054	1.00	0.00
ATOM	1600	CA	ARG	A	105	11.028	-3.511	2.219	1.00	0.00
ATOM	1601	C	ARG	A	105	10.198	-3.783	3.469	1.00	0.00
ATOM	1602	O	ARG	A	105	10.644	-4.480	4.381	1.00	0.00
ATOM	1603	CB	ARG	A	105	11.914	-2.283	2.439	1.00	0.00
ATOM	1604	CG	ARG	A	105	13.285	-2.617	3.004	1.00	0.00
ATOM	1605	CD	ARG	A	105	13.777	-1.531	3.948	1.00	0.00
ATOM	1606	NE	ARG	A	105	14.360	-0.403	3.227	1.00	0.00
ATOM	1607	CZ	ARG	A	105	15.591	-0.403	2.720	1.00	0.00
ATOM	1608	NH1	ARG	A	105	16.370	-1.469	2.852	1.00	0.00
ATOM	1609	NH2	ARG	A	105	16.043	0.667	2.078	1.00	0.00
ATOM	1610	H	ARG	A	105	10.089	-2.416	0.669	1.00	0.00
ATOM	1611	HA	ARG	A	105	11.657	-4.367	2.025	1.00	0.00
ATOM	1612	1HB	ARG	A	105	12.051	-1.777	1.495	1.00	0.00
ATOM	1613	2HB	ARG	A	105	11.417	-1.615	3.127	1.00	0.00
ATOM	1614	1HG	ARG	A	105	13.224	-3.549	3.544	1.00	0.00
ATOM	1615	2HG	ARG	A	105	13.985	-2.716	2.187	1.00	0.00
ATOM	1616	1HD	ARG	A	105	12.943	-1.178	4.536	1.00	0.00
ATOM	1617	2HD	ARG	A	105	14.525	-1.954	4.603	1.00	0.00
ATOM	1618	HE	ARG	A	105	13.806	0.399	3.115	1.00	0.00
ATOM	1619	1HH1	ARG	A	105	16.035	-2.278	3.335	1.00	0.00
ATOM	1620	2HH1	ARG	A	105	17.293	-1.463	2.468	1.00	0.00

ATOM 1621	1HH2	ARG	A	105	15.460	1.472	1.976	1.00	0.00
ATOM 1622	2HH2	ARG	A	105	16.968	0.667	1.697	1.00	0.00
ATOM 1623	N	MET	A	106	8.991	-3.230	3.506	1.00	0.00
ATOM 1624	CA	MET	A	106	8.101	-3.414	4.648	1.00	0.00
ATOM 1625	C	MET	A	106	7.194	-4.625	4.453	1.00	0.00
ATOM 1626	O	MET	A	106	6.727	-5.223	5.422	1.00	0.00
ATOM 1627	CB	MET	A	106	7.252	-2.161	4.865	1.00	0.00
ATOM 1628	CG	MET	A	106	6.634	-2.081	6.251	1.00	0.00
ATOM 1629	SD	MET	A	106	7.339	-0.758	7.256	1.00	0.00
ATOM 1630	CE	MET	A	106	7.170	0.636	6.146	1.00	0.00
ATOM 1631	H	MET	A	106	8.691	-2.684	2.750	1.00	0.00
ATOM 1632	HA	MET	A	106	8.713	-3.575	5.522	1.00	0.00
ATOM 1633	1HB	MET	A	106	7.873	-1.289	4.718	1.00	0.00
ATOM 1634	2HB	MET	A	106	6.454	-2.151	4.137	1.00	0.00
ATOM 1635	1HG	MET	A	106	5.574	-1.908	6.148	1.00	0.00
ATOM 1636	2HG	MET	A	106	6.795	-3.023	6.756	1.00	0.00
ATOM 1637	1HE	MET	A	106	8.146	0.933	5.789	1.00	0.00
ATOM 1638	2HE	MET	A	106	6.713	1.461	6.671	1.00	0.00
ATOM 1639	3HE	MET	A	106	6.551	0.356	5.306	1.00	0.00
ATOM 1640	N	THR	A	107	6.946	-4.982	3.196	1.00	0.00
ATOM 1641	CA	THR	A	107	6.091	-6.121	2.882	1.00	0.00
ATOM 1642	C	THR	A	107	6.916	-7.387	2.655	1.00	0.00
ATOM 1643	O	THR	A	107	6.447	-8.337	2.027	1.00	0.00
ATOM 1644	CB	THR	A	107	5.246	-5.820	1.644	1.00	0.00
ATOM 1645	OG1	THR	A	107	6.050	-5.309	0.596	1.00	0.00
ATOM 1646	CG2	THR	A	107	4.142	-4.817	1.903	1.00	0.00
ATOM 1647	H	THR	A	107	7.344	-4.467	2.464	1.00	0.00

ATOM	1648	HA	THR	A	107	5.434	-6.281	3.723	1.00	0.00
ATOM	1649	HB	THR	A	107	4.785	-6.737	1.302	1.00	0.00
ATOM	1650	HG1	THR	A	107	6.892	-5.769	0.584	1.00	0.00
ATOM	1651	1HG2	THR	A	107	4.142	-4.544	2.948	1.00	0.00
ATOM	1652	2HG2	THR	A	107	3.189	-5.256	1.645	1.00	0.00
ATOM	1653	3HG2	THR	A	107	4.308	-3.937	1.300	1.00	0.00
ATOM	1654	N	HIS	A	108	8.143	-7.398	3.171	1.00	0.00
ATOM	1655	CA	HIS	A	108	9.026	-8.551	3.024	1.00	0.00
ATOM	1656	C	HIS	A	108	9.157	-8.961	1.559	1.00	0.00
ATOM	1657	O	HIS	A	108	8.539	-9.929	1.116	1.00	0.00
ATOM	1658	CB	HIS	A	108	8.503	-9.726	3.855	1.00	0.00
ATOM	1659	CG	HIS	A	108	9.556	-10.384	4.691	1.00	0.00
ATOM	1660	ND1	HIS	A	108	9.750	-10.094	6.025	1.00	0.00
ATOM	1661	CD2	HIS	A	108	10.477	-11.326	4.376	1.00	0.00
ATOM	1662	CE1	HIS	A	108	10.744	-10.827	6.494	1.00	0.00
ATOM	1663	NE2	HIS	A	108	11.202	-11.582	5.514	1.00	0.00
ATOM	1664	H	HIS	A	108	8.462	-6.614	3.664	1.00	0.00
ATOM	1665	HA	HIS	A	108	10.000	-8.269	3.393	1.00	0.00
ATOM	1666	1HB	HIS	A	108	7.728	-9.371	4.519	1.00	0.00
ATOM	1667	2HB	HIS	A	108	8.087	-10.472	3.194	1.00	0.00
ATOM	1668	HD1	HIS	A	108	9.235	-9.445	6.551	1.00	0.00
ATOM	1669	HD2	HIS	A	108	10.617	-11.789	3.409	1.00	0.00
ATOM	1670	HE1	HIS	A	108	11.117	-10.812	7.508	1.00	0.00
ATOM	1671	HE2	HIS	A	108	11.903	-12.260	5.603	1.00	0.00
ATOM	1672	N	ASN	A	109	9.966	-8.218	0.812	1.00	0.00
ATOM	1673	CA	ASN	A	109	10.178	-8.503	-0.603	1.00	0.00
ATOM	1674	C	ASN	A	109	8.858	-8.471	-1.370	1.00	0.00

ATOM 1675	O	ASN A 109	8.712	-9.131	-2.398	1.00	0.00
ATOM 1676	CB	ASN A 109	10.850	-9.868	-0.772	1.00	0.00
ATOM 1677	CG	ASN A 109	12.132	-9.785	-1.579	1.00	0.00
ATOM 1678	OD1	ASN A 109	13.226	-9.701	-1.022	1.00	0.00
ATOM 1679	ND2	ASN A 109	12.001	-9.810	-2.900	1.00	0.00
ATOM 1680	H	ASN A 109	10.432	-7.457	1.221	1.00	0.00
ATOM 1681	HA	ASN A 109	10.830	-7.739	-1.000	1.00	0.00
ATOM 1682	1HB	ASN A 109	11.088	-10.268	0.202	1.00	0.00
ATOM 1683	2HB	ASN A 109	10.172	-10.540	-1.277	1.00	0.00
ATOM 1684	1HD2	ASN A 109	11.099	-9.879	-3.275	1.00	0.00
ATOM 1685	2HD2	ASN A 109	12.814	-9.758	-3.447	1.00	0.00
ATOM 1686	N	GLY A 110	7.902	-7.700	-0.863	1.00	0.00
ATOM 1687	CA	GLY A 110	6.608	-7.596	-1.513	1.00	0.00
ATOM 1688	C	GLY A 110	5.910	-8.936	-1.632	1.00	0.00
ATOM 1689	O	GLY A 110	5.450	-9.308	-2.711	1.00	0.00
ATOM 1690	H	GLY A 110	8.077	-7.196	-0.040	1.00	0.00
ATOM 1691	1HA	GLY A 110	5.983	-6.927	-0.940	1.00	0.00
ATOM 1692	2HA	GLY A 110	6.746	-7.185	-2.501	1.00	0.00
ATOM 1693	N	THR A 111	5.832	-9.662	-0.522	1.00	0.00
ATOM 1694	CA	THR A 111	5.187	-10.971	-0.510	1.00	0.00
ATOM 1695	C	THR A 111	4.093	-11.036	0.551	1.00	0.00
ATOM 1696	O	THR A 111	3.038	-11.632	0.332	1.00	0.00
ATOM 1697	CB	THR A 111	6.220	-12.069	-0.259	1.00	0.00
ATOM 1698	OG1	THR A 111	6.930	-11.826	0.942	1.00	0.00
ATOM 1699	CG2	THR A 111	7.235	-12.202	-1.373	1.00	0.00
ATOM 1700	H	THR A 111	6.220	-9.312	0.307	1.00	0.00
ATOM 1701	HA	THR A 111	4.738	-11.127	-1.479	1.00	0.00

ATOM 1702	HB	THR A 111	5.708	-13.016	-0.165	1.00	0.00
ATOM 1703	HG1	THR A 111	6.308	-11.723	1.666	1.00	0.00
ATOM 1704	1HG2	THR A 111	6.752	-12.598	-2.254	1.00	0.00
ATOM 1705	2HG2	THR A 111	8.025	-12.869	-1.064	1.00	0.00
ATOM 1706	3HG2	THR A 111	7.652	-11.231	-1.599	1.00	0.00
ATOM 1707	N	GLN A 112	4.349	-10.426	1.705	1.00	0.00
ATOM 1708	CA	GLN A 112	3.381	-10.425	2.796	1.00	0.00
ATOM 1709	C	GLN A 112	3.148	-9.013	3.325	1.00	0.00
ATOM 1710	O	GLN A 112	3.980	-8.465	4.048	1.00	0.00
ATOM 1711	CB	GLN A 112	3.859	-11.333	3.929	1.00	0.00
ATOM 1712	CG	GLN A 112	2.768	-11.691	4.924	1.00	0.00
ATOM 1713	CD	GLN A 112	3.278	-11.759	6.350	1.00	0.00
ATOM 1714	OE1	GLN A 112	4.384	-11.309	6.648	1.00	0.00
ATOM 1715	NE2	GLN A 112	2.471	-12.326	7.241	1.00	0.00
ATOM 1716	H	GLN A 112	5.207	-9.969	1.826	1.00	0.00
ATOM 1717	HA	GLN A 112	2.449	-10.808	2.410	1.00	0.00
ATOM 1718	1HB	GLN A 112	4.242	-12.249	3.503	1.00	0.00
ATOM 1719	2HB	GLN A 112	4.654	-10.836	4.463	1.00	0.00
ATOM 1720	1HG	GLN A 112	1.991	-10.943	4.873	1.00	0.00
ATOM 1721	2HG	GLN A 112	2.356	-12.654	4.658	1.00	0.00
ATOM 1722	1HE2	GLN A 112	1.605	-12.661	6.933	1.00	0.00
ATOM 1723	2HE2	GLN A 112	2.776	-12.382	8.171	1.00	0.00
ATOM 1724	N	LEU A 113	2.008	-8.432	2.963	1.00	0.00
ATOM 1725	CA	LEU A 113	1.661	-7.087	3.407	1.00	0.00
ATOM 1726	C	LEU A 113	1.055	-7.124	4.806	1.00	0.00
ATOM 1727	O	LEU A 113	-0.145	-7.343	4.968	1.00	0.00
ATOM 1728	CB	LEU A 113	0.683	-6.439	2.419	1.00	0.00



ATOM 1729	CG	LEU A 113	0.125	-5.068	2.827	1.00	0.00
ATOM 1730	CD1	LEU A 113	-1.158	-5.228	3.625	1.00	0.00
ATOM 1731	CD2	LEU A 113	1.153	-4.272	3.621	1.00	0.00
ATOM 1732	H	LEU A 113	1.382	-8.923	2.388	1.00	0.00
ATOM 1733	HA	LEU A 113	2.570	-6.505	3.436	1.00	0.00
ATOM 1734	1HB	LEU A 113	1.189	-6.327	1.470	1.00	0.00
ATOM 1735	2HB	LEU A 113	-0.151	-7.112	2.281	1.00	0.00
ATOM 1736	HG	LEU A 113	-0.112	-4.508	1.933	1.00	0.00
ATOM 1737	1HD1	LEU A 113	-0.948	-5.093	4.677	1.00	0.00
ATOM 1738	2HD1	LEU A 113	-1.564	-6.216	3.464	1.00	0.00
ATOM 1739	3HD1	LEU A 113	-1.877	-4.488	3.304	1.00	0.00
ATOM 1740	1HD2	LEU A 113	1.029	-3.219	3.415	1.00	0.00
ATOM 1741	2HD2	LEU A 113	2.146	-4.580	3.334	1.00	0.00
ATOM 1742	3HD2	LEU A 113	1.010	-4.452	4.676	1.00	0.00
ATOM 1743	N	LEU A 114	1.898	-6.919	5.815	1.00	0.00
ATOM 1744	CA	LEU A 114	1.454	-6.936	7.206	1.00	0.00
ATOM 1745	C	LEU A 114	0.894	-8.305	7.580	1.00	0.00
ATOM 1746	O	LEU A 114	1.580	-9.119	8.198	1.00	0.00
ATOM 1747	CB	LEU A 114	0.397	-5.855	7.445	1.00	0.00
ATOM 1748	CG	LEU A 114	0.941	-4.430	7.555	1.00	0.00
ATOM 1749	CD1	LEU A 114	-0.178	-3.455	7.890	1.00	0.00
ATOM 1750	CD2	LEU A 114	2.044	-4.360	8.602	1.00	0.00
ATOM 1751	H	LEU A 114	2.845	-6.757	5.619	1.00	0.00
ATOM 1752	HA	LEU A 114	2.312	-6.731	7.828	1.00	0.00
ATOM 1753	1HB	LEU A 114	-0.311	-5.885	6.630	1.00	0.00
ATOM 1754	2HB	LEU A 114	-0.125	-6.088	8.361	1.00	0.00
ATOM 1755	HG	LEU A 114	1.362	-4.142	6.604	1.00	0.00

ATOM 1756	1HD1	LEU	A	114	-0.046	-2.548	7.319	1.00	0.00
ATOM 1757	2HD1	LEU	A	114	-0.150	-3.223	8.945	1.00	0.00
ATOM 1758	3HD1	LEU	A	114	-1.130	-3.901	7.644	1.00	0.00
ATOM 1759	1HD2	LEU	A	114	2.021	-3.394	9.083	1.00	0.00
ATOM 1760	2HD2	LEU	A	114	3.002	-4.504	8.125	1.00	0.00
ATOM 1761	3HD2	LEU	A	114	1.889	-5.134	9.339	1.00	0.00
ATOM 1762	N	ASN	A	115	-0.355	-8.549	7.202	1.00	0.00
ATOM 1763	CA	ASN	A	115	-1.010	-9.820	7.496	1.00	0.00
ATOM 1764	C	ASN	A	115	-1.438	-10.522	6.210	1.00	0.00
ATOM 1765	O	ASN	A	115	-1.342	-11.745	6.098	1.00	0.00
ATOM 1766	CB	ASN	A	115	-2.226	-9.593	8.396	1.00	0.00
ATOM 1767	CG	ASN	A	115	-1.855	-9.533	9.864	1.00	0.00
ATOM 1768	OD1	ASN	A	115	-2.200	-8.580	10.565	1.00	0.00
ATOM 1769	ND2	ASN	A	115	-1.149	-10.553	10.339	1.00	0.00
ATOM 1770	H	ASN	A	115	-0.849	-7.859	6.712	1.00	0.00
ATOM 1771	HA	ASN	A	115	-0.301	-10.446	8.015	1.00	0.00
ATOM 1772	1HB	ASN	A	115	-2.698	-8.660	8.124	1.00	0.00
ATOM 1773	2HB	ASN	A	115	-2.927	-10.402	8.253	1.00	0.00
ATOM 1774	1HD2	ASN	A	115	-0.910	-11.277	9.724	1.00	0.00
ATOM 1775	2HD2	ASN	A	115	-0.895	-10.539	11.286	1.00	0.00
ATOM 1776	N	PHE	A	116	-1.911	-9.742	5.244	1.00	0.00
ATOM 1777	CA	PHE	A	116	-2.355	-10.288	3.967	1.00	0.00
ATOM 1778	C	PHE	A	116	-1.165	-10.646	3.083	1.00	0.00
ATOM 1779	O	PHE	A	116	-0.283	-9.820	2.846	1.00	0.00
ATOM 1780	CB	PHE	A	116	-3.255	-9.283	3.246	1.00	0.00
ATOM 1781	CG	PHE	A	116	-4.674	-9.288	3.738	1.00	0.00
ATOM 1782	CD1	PHE	A	116	-5.037	-8.546	4.850	1.00	0.00

ATOM 1783	CD2	PHE A 116	-5.644	-10.034	3.088	1.00	0.00
ATOM 1784	CE1	PHE A 116	-6.342	-8.549	5.307	1.00	0.00
ATOM 1785	CE2	PHE A 116	-6.951	-10.040	3.539	1.00	0.00
ATOM 1786	CZ	PHE A 116	-7.300	-9.296	4.649	1.00	0.00
ATOM 1787	H	PHE A 116	-1.964	-8.775	5.394	1.00	0.00
ATOM 1788	HA	PHE A 116	-2.922	-11.184	4.169	1.00	0.00
ATOM 1789	1HB	PHE A 116	-2.858	-8.289	3.388	1.00	0.00
ATOM 1790	2HB	PHE A 116	-3.266	-9.514	2.191	1.00	0.00
ATOM 1791	HD1	PHE A 116	-4.290	-7.961	5.364	1.00	0.00
ATOM 1792	HD2	PHE A 116	-5.372	-10.615	2.219	1.00	0.00
ATOM 1793	HE1	PHE A 116	-6.613	-7.968	6.175	1.00	0.00
ATOM 1794	HE2	PHE A 116	-7.697	-10.626	3.024	1.00	0.00
ATOM 1795	HZ	PHE A 116	-8.320	-9.300	5.003	1.00	0.00
ATOM 1796	N	THR A 117	-1.147	-11.883	2.595	1.00	0.00
ATOM 1797	CA	THR A 117	-0.067	-12.350	1.734	1.00	0.00
ATOM 1798	C	THR A 117	-0.401	-12.103	0.267	1.00	0.00
ATOM 1799	O	THR A 117	-1.382	-12.632	-0.255	1.00	0.00
ATOM 1800	CB	THR A 117	0.193	-13.839	1.968	1.00	0.00
ATOM 1801	OG1	THR A 117	-0.959	-14.604	1.665	1.00	0.00
ATOM 1802	CG2	THR A 117	0.595	-14.160	3.392	1.00	0.00
ATOM 1803	H	THR A 117	-1.880	-12.494	2.818	1.00	0.00
ATOM 1804	HA	THR A 117	0.822	-11.794	1.987	1.00	0.00
ATOM 1805	HB	THR A 117	0.994	-14.161	1.318	1.00	0.00
ATOM 1806	HG1	THR A 117	-1.645	-14.420	2.311	1.00	0.00
ATOM 1807	1HG2	THR A 117	-0.095	-14.879	3.806	1.00	0.00
ATOM 1808	2HG2	THR A 117	0.573	-13.257	3.984	1.00	0.00
ATOM 1809	3HG2	THR A 117	1.593	-14.572	3.400	1.00	0.00

ATOM	1810	N	LEU	A	118	0.418	-11.291	-0.395	1.00	0.00
ATOM	1811	CA	LEU	A	118	0.203	-10.973	-1.801	1.00	0.00
ATOM	1812	C	LEU	A	118	1.466	-11.218	-2.621	1.00	0.00
ATOM	1813	O	LEU	A	118	2.569	-11.286	-2.077	1.00	0.00
ATOM	1814	CB	LEU	A	118	-0.249	-9.518	-1.952	1.00	0.00
ATOM	1815	CG	LEU	A	118	0.675	-8.479	-1.314	1.00	0.00
ATOM	1816	CD1	LEU	A	118	1.723	-8.012	-2.311	1.00	0.00
ATOM	1817	CD2	LEU	A	118	-0.133	-7.300	-0.793	1.00	0.00
ATOM	1818	H	LEU	A	118	1.183	-10.897	0.074	1.00	0.00
ATOM	1819	HA	LEU	A	118	-0.579	-11.620	-2.170	1.00	0.00
ATOM	1820	1HB	LEU	A	118	-0.333	-9.296	-3.005	1.00	0.00
ATOM	1821	2HB	LEU	A	118	-1.226	-9.420	-1.502	1.00	0.00
ATOM	1822	HG	LEU	A	118	1.188	-8.929	-0.477	1.00	0.00
ATOM	1823	1HD1	LEU	A	118	1.901	-6.955	-2.178	1.00	0.00
ATOM	1824	2HD1	LEU	A	118	1.371	-8.195	-3.315	1.00	0.00
ATOM	1825	3HD1	LEU	A	118	2.643	-8.555	-2.147	1.00	0.00
ATOM	1826	1HD2	LEU	A	118	-1.075	-7.250	-1.318	1.00	0.00
ATOM	1827	2HD2	LEU	A	118	0.418	-6.386	-0.954	1.00	0.00
ATOM	1828	3HD2	LEU	A	118	-0.316	-7.428	0.264	1.00	0.00
ATOM	1829	N	ASP	A	119	1.295	-11.355	-3.932	1.00	0.00
ATOM	1830	CA	ASP	A	119	2.418	-11.598	-4.831	1.00	0.00
ATOM	1831	C	ASP	A	119	3.375	-10.409	-4.851	1.00	0.00
ATOM	1832	O	ASP	A	119	3.137	-9.397	-4.191	1.00	0.00
ATOM	1833	CB	ASP	A	119	1.911	-11.880	-6.246	1.00	0.00
ATOM	1834	CG	ASP	A	119	2.788	-12.868	-6.990	1.00	0.00
ATOM	1835	OD1	ASP	A	119	3.439	-13.702	-6.326	1.00	0.00
ATOM	1836	OD2	ASP	A	119	2.824	-12.808	-8.238	1.00	0.00

ATOM 1837	H	ASP A 119	0.390	-11.293	-4.304	1.00	0.00
ATOM 1838	HA	ASP A 119	2.950	-12.465	-4.469	1.00	0.00
ATOM 1839	1HB	ASP A 119	0.912	-12.286	-6.189	1.00	0.00
ATOM 1840	2HB	ASP A 119	1.888	-10.955	-6.804	1.00	0.00
ATOM 1841	N	ARG A 120	4.456	-10.540	-5.613	1.00	0.00
ATOM 1842	CA	ARG A 120	5.450	-9.478	-5.721	1.00	0.00
ATOM 1843	C	ARG A 120	5.547	-8.970	-7.156	1.00	0.00
ATOM 1844	O	ARG A 120	5.643	-7.766	-7.393	1.00	0.00
ATOM 1845	CB	ARG A 120	6.817	-9.982	-5.254	1.00	0.00
ATOM 1846	CG	ARG A 120	7.909	-8.925	-5.313	1.00	0.00
ATOM 1847	CD	ARG A 120	9.273	-9.544	-5.585	1.00	0.00
ATOM 1848	NE	ARG A 120	9.839	-9.087	-6.852	1.00	0.00
ATOM 1849	CZ	ARG A 120	10.473	-7.927	-7.006	1.00	0.00
ATOM 1850	NH1	ARG A 120	10.625	-7.102	-5.977	1.00	0.00
ATOM 1851	NH2	ARG A 120	10.957	-7.590	-8.194	1.00	0.00
ATOM 1852	H	ARG A 120	4.588	-11.371	-6.114	1.00	0.00
ATOM 1853	HA	ARG A 120	5.138	-8.665	-5.083	1.00	0.00
ATOM 1854	1HB	ARG A 120	6.733	-10.324	-4.233	1.00	0.00
ATOM 1855	2HB	ARG A 120	7.115	-10.812	-5.879	1.00	0.00
ATOM 1856	1HG	ARG A 120	7.679	-8.228	-6.105	1.00	0.00
ATOM 1857	2HG	ARG A 120	7.943	-8.403	-4.369	1.00	0.00
ATOM 1858	1HD	ARG A 120	9.943	-9.271	-4.784	1.00	0.00
ATOM 1859	2HD	ARG A 120	9.168	-10.619	-5.615	1.00	0.00
ATOM 1860	HE	ARG A 120	9.741	-9.677	-7.629	1.00	0.00
ATOM 1861	1HH1	ARG A 120	10.262	-7.349	-5.080	1.00	0.00
ATOM 1862	2HH1	ARG A 120	11.103	-6.233	-6.101	1.00	0.00
ATOM 1863	1HH2	ARG A 120	10.847	-8.207	-8.972	1.00	0.00

ATOM 1864	2HH2	ARG A 120	11.435	-6.719	-8.311	1.00	0.00
ATOM 1865	N	LYS A 121	5.523	-9.896	-8.110	1.00	0.00
ATOM 1866	CA	LYS A 121	5.608	-9.542	-9.521	1.00	0.00
ATOM 1867	C	LYS A 121	4.458	-8.625	-9.924	1.00	0.00
ATOM 1868	O	LYS A 121	4.610	-7.769	-10.796	1.00	0.00
ATOM 1869	CB	LYS A 121	5.597	-10.805	-10.386	1.00	0.00
ATOM 1870	CG	LYS A 121	6.537	-11.892	-9.888	1.00	0.00
ATOM 1871	CD	LYS A 121	5.772	-13.047	-9.260	1.00	0.00
ATOM 1872	CE	LYS A 121	6.697	-13.976	-8.490	1.00	0.00
ATOM 1873	NZ	LYS A 121	6.856	-15.291	-9.170	1.00	0.00
ATOM 1874	H	LYS A 121	5.445	-10.839	-7.857	1.00	0.00
ATOM 1875	HA	LYS A 121	6.540	-9.020	-9.676	1.00	0.00
ATOM 1876	1HB	LYS A 121	4.594	-11.205	-10.405	1.00	0.00
ATOM 1877	2HB	LYS A 121	5.889	-10.540	-11.392	1.00	0.00
ATOM 1878	1HG	LYS A 121	7.112	-12.266	-10.722	1.00	0.00
ATOM 1879	2HG	LYS A 121	7.202	-11.468	-9.150	1.00	0.00
ATOM 1880	1HD	LYS A 121	5.032	-12.650	-8.582	1.00	0.00
ATOM 1881	2HD	LYS A 121	5.282	-13.608	-10.042	1.00	0.00
ATOM 1882	1HE	LYS A 121	7.666	-13.508	-8.401	1.00	0.00
ATOM 1883	2HE	LYS A 121	6.284	-14.138	-7.504	1.00	0.00
ATOM 1884	1HZ	LYS A 121	7.430	-15.930	-8.584	1.00	0.00
ATOM 1885	2HZ	LYS A 121	7.326	-15.165	-10.088	1.00	0.00
ATOM 1886	3HZ	LYS A 121	5.924	-15.726	-9.327	1.00	0.00
ATOM 1887	N	SER A 122	3.308	-8.811	-9.285	1.00	0.00
ATOM 1888	CA	SER A 122	2.132	-7.999	-9.577	1.00	0.00
ATOM 1889	C	SER A 122	2.262	-6.610	-8.961	1.00	0.00
ATOM 1890	O	SER A 122	1.743	-5.630	-9.497	1.00	0.00

ATOM 1891	CB	SER A 122	0.870	-8.685	-9.053	1.00	0.00
ATOM 1892	OG	SER A 122	-0.279	-7.888	-9.286	1.00	0.00
ATOM 1893	H	SER A 122	3.249	-9.509	-8.600	1.00	0.00
ATOM 1894	HA	SER A 122	2.057	-7.898	-10.650	1.00	0.00
ATOM 1895	1HB	SER A 122	0.743	-9.633	-9.555	1.00	0.00
ATOM 1896	2HB	SER A 122	0.968	-8.852	-7.990	1.00	0.00
ATOM 1897	HG	SER A 122	-1.021	-8.454	-9.513	1.00	0.00
ATOM 1898	N	VAL A 123	2.961	-6.531	-7.833	1.00	0.00
ATOM 1899	CA	VAL A 123	3.160	-5.261	-7.145	1.00	0.00
ATOM 1900	C	VAL A 123	3.977	-4.298	-8.000	1.00	0.00
ATOM 1901	O	VAL A 123	5.017	-4.667	-8.546	1.00	0.00
ATOM 1902	CB	VAL A 123	3.870	-5.459	-5.792	1.00	0.00
ATOM 1903	CG1	VAL A 123	3.930	-4.150	-5.020	1.00	0.00
ATOM 1904	CG2	VAL A 123	3.172	-6.536	-4.974	1.00	0.00
ATOM 1905	H	VAL A 123	3.353	-7.346	-7.455	1.00	0.00
ATOM 1906	HA	VAL A 123	2.189	-4.827	-6.959	1.00	0.00
ATOM 1907	HB	VAL A 123	4.882	-5.783	-5.983	1.00	0.00
ATOM 1908	1HG1	VAL A 123	4.217	-4.347	-3.998	1.00	0.00
ATOM 1909	2HG1	VAL A 123	2.958	-3.678	-5.037	1.00	0.00
ATOM 1910	3HG1	VAL A 123	4.655	-3.494	-5.478	1.00	0.00
ATOM 1911	1HG2	VAL A 123	2.554	-7.139	-5.623	1.00	0.00
ATOM 1912	2HG2	VAL A 123	2.555	-6.072	-4.219	1.00	0.00
ATOM 1913	3HG2	VAL A 123	3.912	-7.162	-4.498	1.00	0.00
ATOM 1914	N	PHE A 124	3.500	-3.062	-8.110	1.00	0.00
ATOM 1915	CA	PHE A 124	4.187	-2.046	-8.899	1.00	0.00
ATOM 1916	C	PHE A 124	3.514	-0.687	-8.740	1.00	0.00
ATOM 1917	O	PHE A 124	2.372	-0.596	-8.287	1.00	0.00

ATOM 1918	CB	PHE A 124	4.211	-2.447	-10.374	1.00	0.00
ATOM 1919	CG	PHE A 124	5.093	-1.575	-11.220	1.00	0.00
ATOM 1920	CD1	PHE A 124	6.432	-1.884	-11.398	1.00	0.00
ATOM 1921	CD2	PHE A 124	4.583	-0.444	-11.840	1.00	0.00
ATOM 1922	CE1	PHE A 124	7.246	-1.083	-12.176	1.00	0.00
ATOM 1923	CE2	PHE A 124	5.392	0.360	-12.620	1.00	0.00
ATOM 1924	CZ	PHE A 124	6.725	0.040	-12.788	1.00	0.00
ATOM 1925	H	PHE A 124	2.667	-2.828	-7.651	1.00	0.00
ATOM 1926	HA	PHE A 124	5.202	-1.975	-8.537	1.00	0.00
ATOM 1927	1HB	PHE A 124	4.570	-3.462	-10.458	1.00	0.00
ATOM 1928	2HB	PHE A 124	3.208	-2.392	-10.771	1.00	0.00
ATOM 1929	HD1	PHE A 124	6.840	-2.762	-10.920	1.00	0.00
ATOM 1930	HD2	PHE A 124	3.541	-0.193	-11.709	1.00	0.00
ATOM 1931	HE1	PHE A 124	8.288	-1.336	-12.306	1.00	0.00
ATOM 1932	HE2	PHE A 124	4.983	1.239	-13.096	1.00	0.00
ATOM 1933	HZ	PHE A 124	7.359	0.668	-13.398	1.00	0.00
ATOM 1934	N	VAL A 125	4.227	0.369	-9.119	1.00	0.00
ATOM 1935	CA	VAL A 125	3.699	1.724	-9.020	1.00	0.00
ATOM 1936	C	VAL A 125	4.291	2.622	-10.101	1.00	0.00
ATOM 1937	O	VAL A 125	5.508	2.677	-10.280	1.00	0.00
ATOM 1938	CB	VAL A 125	3.987	2.340	-7.635	1.00	0.00
ATOM 1939	CG1	VAL A 125	5.486	2.452	-7.397	1.00	0.00
ATOM 1940	CG2	VAL A 125	3.314	3.698	-7.502	1.00	0.00
ATOM 1941	H	VAL A 125	5.131	0.233	-9.473	1.00	0.00
ATOM 1942	HA	VAL A 125	2.629	1.675	-9.152	1.00	0.00
ATOM 1943	HB	VAL A 125	3.575	1.684	-6.882	1.00	0.00
ATOM 1944	1HG1	VAL A 125	6.008	1.780	-8.063	1.00	0.00



ATOM	1945	2HG1	VAL	A	125	5.709	2.189	-6.374	1.00	0.00
ATOM	1946	3HG1	VAL	A	125	5.806	3.466	-7.586	1.00	0.00
ATOM	1947	1HG2	VAL	A	125	3.990	4.391	-7.022	1.00	0.00
ATOM	1948	2HG2	VAL	A	125	2.419	3.600	-6.906	1.00	0.00
ATOM	1949	3HG2	VAL	A	125	3.055	4.070	-8.482	1.00	0.00
ATOM	1950	N	ASP	A	126	3.422	3.325	-10.822	1.00	0.00
ATOM	1951	CA	ASP	A	126	3.862	4.220	-11.887	1.00	0.00
ATOM	1952	C	ASP	A	126	3.440	5.657	-11.602	1.00	0.00
ATOM	1953	O	ASP	A	126	2.786	5.936	-10.596	1.00	0.00
ATOM	1954	CB	ASP	A	126	3.292	3.765	-13.233	1.00	0.00
ATOM	1955	CG	ASP	A	126	4.309	3.861	-14.353	1.00	0.00
ATOM	1956	OD1	ASP	A	126	5.207	4.726	-14.267	1.00	0.00
ATOM	1957	OD2	ASP	A	126	4.209	3.073	-15.315	1.00	0.00
ATOM	1958	H	ASP	A	126	2.464	3.241	-10.633	1.00	0.00
ATOM	1959	HA	ASP	A	126	4.940	4.178	-11.931	1.00	0.00
ATOM	1960	1HB	ASP	A	126	2.971	2.738	-13.151	1.00	0.00
ATOM	1961	2HB	ASP	A	126	2.444	4.384	-13.486	1.00	0.00
ATOM	1962	N	SER	A	127	3.816	6.568	-12.495	1.00	0.00
ATOM	1963	CA	SER	A	127	3.476	7.978	-12.339	1.00	0.00
ATOM	1964	C	SER	A	127	2.066	8.255	-12.851	1.00	0.00
ATOM	1965	O	SER	A	127	1.784	8.102	-14.040	1.00	0.00
ATOM	1966	CB	SER	A	127	4.485	8.852	-13.085	1.00	0.00
ATOM	1967	OG	SER	A	127	5.783	8.716	-12.535	1.00	0.00
ATOM	1968	H	SER	A	127	4.335	6.284	-13.276	1.00	0.00
ATOM	1969	HA	SER	A	127	3.516	8.213	-11.287	1.00	0.00
ATOM	1970	1HB	SER	A	127	4.515	8.559	-14.123	1.00	0.00
ATOM	1971	2HB	SER	A	127	4.184	9.887	-13.011	1.00	0.00

ATOM 1972	HG	SER A 127	6.118	9.579	-12.281	1.00	0.00
ATOM 1973	N	GLY A 128	1.185	8.665	-11.945	1.00	0.00
ATOM 1974	CA	GLY A 128	-0.186	8.958	-12.320	1.00	0.00
ATOM 1975	C	GLY A 128	-0.283	10.046	-13.376	1.00	0.00
ATOM 1976	O	GLY A 128	-0.763	9.796	-14.480	1.00	0.00
ATOM 1977	H	GLY A 128	1.468	8.768	-11.013	1.00	0.00
ATOM 1978	1HA	GLY A 128	-0.642	8.058	-12.705	1.00	0.00
ATOM 1979	2HA	GLY A 128	-0.727	9.277	-11.442	1.00	0.00
ATOM 1980	N	PRO A 129	0.167	11.274	-13.063	1.00	0.00
ATOM 1981	CA	PRO A 129	0.119	12.397	-14.004	1.00	0.00
ATOM 1982	C	PRO A 129	0.856	12.095	-15.305	1.00	0.00
ATOM 1983	O	PRO A 129	0.236	11.916	-16.354	1.00	0.00
ATOM 1984	CB	PRO A 129	0.807	13.544	-13.250	1.00	0.00
ATOM 1985	CG	PRO A 129	1.539	12.896	-12.123	1.00	0.00
ATOM 1986	CD	PRO A 129	0.754	11.666	-11.773	1.00	0.00
ATOM 1987	HA	PRO A 129	-0.901	12.675	-14.231	1.00	0.00
ATOM 1988	1HB	PRO A 129	1.486	14.058	-13.915	1.00	0.00
ATOM 1989	2HB	PRO A 129	0.062	14.235	-12.888	1.00	0.00
ATOM 1990	1HG	PRO A 129	2.536	12.627	-12.439	1.00	0.00
ATOM 1991	2HG	PRO A 129	1.581	13.567	-11.278	1.00	0.00
ATOM 1992	1HD	PRO A 129	1.409	10.896	-11.393	1.00	0.00
ATOM 1993	2HD	PRO A 129	-0.017	11.900	-11.053	1.00	0.00
ATOM 1994	N	SER A 130	2.182	12.038	-15.233	1.00	0.00
ATOM 1995	CA	SER A 130	2.999	11.758	-16.407	1.00	0.00
ATOM 1996	C	SER A 130	4.455	11.523	-16.016	1.00	0.00
ATOM 1997	O	SER A 130	4.999	10.442	-16.234	1.00	0.00
ATOM 1998	CB	SER A 130	2.907	12.914	-17.406	1.00	0.00

ATOM	1999	OG	SER A 130	2.877	12.436	-18.739	1.00	0.00
ATOM	2000	H	SER A 130	2.621	12.189	-14.370	1.00	0.00
ATOM	2001	HA	SER A 130	2.615	10.862	-16.871	1.00	0.00
ATOM	2002	1HB	SER A 130	2.004	13.477	-17.218	1.00	0.00
ATOM	2003	2HB	SER A 130	3.765	13.559	-17.286	1.00	0.00
ATOM	2004	HG	SER A 130	2.435	13.078	-19.299	1.00	0.00
ATOM	2005	N	SER A 131	5.079	12.545	-15.439	1.00	0.00
ATOM	2006	CA	SER A 131	6.472	12.450	-15.018	1.00	0.00
ATOM	2007	C	SER A 131	7.384	12.187	-16.213	1.00	0.00
ATOM	2008	O	SER A 131	7.815	11.056	-16.440	1.00	0.00
ATOM	2009	CB	SER A 131	6.640	11.339	-13.980	1.00	0.00
ATOM	2010	OG	SER A 131	8.001	11.182	-13.616	1.00	0.00
ATOM	2011	H	SER A 131	4.592	13.383	-15.293	1.00	0.00
ATOM	2012	HA	SER A 131	6.748	13.393	-14.572	1.00	0.00
ATOM	2013	1HB	SER A 131	6.071	11.586	-13.097	1.00	0.00
ATOM	2014	2HB	SER A 131	6.280	10.407	-14.391	1.00	0.00
ATOM	2015	HG	SER A 131	8.282	11.938	-13.095	1.00	0.00
ATOM	2016	N	GLY A 132	7.674	13.238	-16.973	1.00	0.00
ATOM	2017	CA	GLY A 132	8.533	13.099	-18.135	1.00	0.00
ATOM	2018	C	GLY A 132	9.883	13.758	-17.939	1.00	0.00
ATOM	2019	H	GLY A 132	7.302	14.115	-16.744	1.00	0.00
ATOM	2020	1HA	GLY A 132	8.683	12.048	-18.334	1.00	0.00
ATOM	2021	2HA	GLY A 132	8.045	13.550	-18.986	1.00	0.00
TER	2022		GLY A 132					
ENDMDL								

Three-Dimensional Structure Coordinate 11

ATOM 1	N	GLY A	1	9.213	36.101	1.209	1.00	0.00
ATOM 2	CA	GLY A	1	9.736	36.464	-0.136	1.00	0.00
ATOM 3	C	GLY A	1	9.389	35.433	-1.191	1.00	0.00
ATOM 4	O	GLY A	1	8.582	34.536	-0.950	1.00	0.00
ATOM 5	1H	GLY A	1	9.474	36.829	1.904	1.00	0.00
ATOM 6	2H	GLY A	1	9.610	35.190	1.514	1.00	0.00
ATOM 7	3H	GLY A	1	8.176	36.021	1.181	1.00	0.00
ATOM 8	1HA	GLY A	1	9.319	37.417	-0.428	1.00	0.00
ATOM 9	2HA	GLY A	1	10.811	36.556	-0.079	1.00	0.00
ATOM 10	N	SER A	2	9.999	35.562	-2.365	1.00	0.00
ATOM 11	CA	SER A	2	9.750	34.634	-3.462	1.00	0.00
ATOM 12	C	SER A	2	11.054	34.249	-4.156	1.00	0.00
ATOM 13	O	SER A	2	11.438	34.855	-5.155	1.00	0.00
ATOM 14	CB	SER A	2	8.784	35.254	-4.472	1.00	0.00
ATOM 15	OG	SER A	2	7.449	34.858	-4.211	1.00	0.00
ATOM 16	H	SER A	2	10.632	36.298	-2.496	1.00	0.00
ATOM 17	HA	SER A	2	9.301	33.744	-3.047	1.00	0.00
ATOM 18	1HB	SER A	2	8.844	36.330	-4.412	1.00	0.00
ATOM 19	2HB	SER A	2	9.053	34.934	-5.468	1.00	0.00
ATOM 20	HG	SER A	2	7.232	34.090	-4.745	1.00	0.00
ATOM 21	N	SER A	3	11.728	33.237	-3.618	1.00	0.00
ATOM 22	CA	SER A	3	12.987	32.772	-4.186	1.00	0.00
ATOM 23	C	SER A	3	13.391	31.429	-3.586	1.00	0.00
ATOM 24	O	SER A	3	13.251	31.208	-2.383	1.00	0.00
ATOM 25	CB	SER A	3	14.091	33.803	-3.946	1.00	0.00
ATOM 26	OG	SER A	3	13.833	34.565	-2.780	1.00	0.00
ATOM 27	H	SER A	3	11.369	32.794	-2.822	1.00	0.00

ATOM 28	HA	SER A	3	12.846	32.650	-5.249	1.00	0.00
ATOM 29	1HB	SER A	3	15.036	33.294	-3.825	1.00	0.00
ATOM 30	2HB	SER A	3	14.147	34.471	-4.793	1.00	0.00
ATOM 31	HG	SER A	3	13.322	35.345	-3.013	1.00	0.00
ATOM 32	N	GLY A	4	13.891	30.535	-4.432	1.00	0.00
ATOM 33	CA	GLY A	4	14.308	29.225	-3.966	1.00	0.00
ATOM 34	C	GLY A	4	14.198	28.164	-5.042	1.00	0.00
ATOM 35	O	GLY A	4	14.925	28.198	-6.035	1.00	0.00
ATOM 36	H	GLY A	4	13.980	30.767	-5.380	1.00	0.00
ATOM 37	1HA	GLY A	4	15.335	29.282	-3.636	1.00	0.00
ATOM 38	2HA	GLY A	4	13.688	28.939	-3.130	1.00	0.00
ATOM 39	N	SER A	5	13.285	27.217	-4.847	1.00	0.00
ATOM 40	CA	SER A	5	13.081	26.141	-5.809	1.00	0.00
ATOM 41	C	SER A	5	11.631	26.100	-6.282	1.00	0.00
ATOM 42	O	SER A	5	10.722	25.827	-5.500	1.00	0.00
ATOM 43	CB	SER A	5	13.466	24.796	-5.190	1.00	0.00
ATOM 44	OG	SER A	5	12.796	24.592	-3.958	1.00	0.00
ATOM 45	H	SER A	5	12.735	27.245	-4.036	1.00	0.00
ATOM 46	HA	SER A	5	13.719	26.331	-6.659	1.00	0.00
ATOM 47	1HB	SER A	5	13.196	24.000	-5.868	1.00	0.00
ATOM 48	2HB	SER A	5	14.531	24.774	-5.015	1.00	0.00
ATOM 49	HG	SER A	5	13.041	25.286	-3.342	1.00	0.00
ATOM 50	N	SER A	6	11.425	26.372	-7.568	1.00	0.00
ATOM 51	CA	SER A	6	10.088	26.368	-8.152	1.00	0.00
ATOM 52	C	SER A	6	9.246	27.516	-7.601	1.00	0.00
ATOM 53	O	SER A	6	8.934	28.466	-8.317	1.00	0.00
ATOM 54	CB	SER A	6	9.389	25.032	-7.885	1.00	0.00

ATOM 55	OG	SER A	6	8.187	24.927	-8.627	1.00	0.00
ATOM 56	H	SER A	6	12.194	26.580	-8.139	1.00	0.00
ATOM 57	HA	SER A	6	10.194	26.498	-9.219	1.00	0.00
ATOM 58	1HB	SER A	6	10.044	24.221	-8.170	1.00	0.00
ATOM 59	2HB	SER A	6	9.156	24.953	-6.834	1.00	0.00
ATOM 60	HG	SER A	6	7.712	24.136	-8.359	1.00	0.00
ATOM 61	N	GLY A	7	8.883	27.420	-6.326	1.00	0.00
ATOM 62	CA	GLY A	7	8.083	28.458	-5.704	1.00	0.00
ATOM 63	C	GLY A	7	6.644	28.030	-5.487	1.00	0.00
ATOM 64	O	GLY A	7	6.195	27.894	-4.349	1.00	0.00
ATOM 65	H	GLY A	7	9.162	26.639	-5.804	1.00	0.00
ATOM 66	1HA	GLY A	7	8.519	28.710	-4.749	1.00	0.00
ATOM 67	2HA	GLY A	7	8.094	29.334	-6.335	1.00	0.00
ATOM 68	N	SER A	8	5.921	27.818	-6.581	1.00	0.00
ATOM 69	CA	SER A	8	4.525	27.403	-6.507	1.00	0.00
ATOM 70	C	SER A	8	4.397	26.045	-5.824	1.00	0.00
ATOM 71	O	SER A	8	3.528	25.845	-4.975	1.00	0.00
ATOM 72	CB	SER A	8	3.913	27.343	-7.907	1.00	0.00
ATOM 73	OG	SER A	8	3.944	28.615	-8.533	1.00	0.00
ATOM 74	H	SER A	8	6.335	27.943	-7.460	1.00	0.00
ATOM 75	HA	SER A	8	3.992	28.138	-5.922	1.00	0.00
ATOM 76	1HB	SER A	8	4.471	26.644	-8.512	1.00	0.00
ATOM 77	2HB	SER A	8	2.885	27.016	-7.835	1.00	0.00
ATOM 78	HG	SER A	8	3.284	29.185	-8.133	1.00	0.00
ATOM 79	N	SER A	9	5.269	25.114	-6.201	1.00	0.00
ATOM 80	CA	SER A	9	5.255	23.773	-5.626	1.00	0.00
ATOM 81	C	SER A	9	3.955	23.048	-5.963	1.00	0.00

ATOM 82	O	SER A	9	2.872	23.626	-5.881	1.00	0.00
ATOM 83	CB	SER A	9	5.436	23.843	-4.108	1.00	0.00
ATOM 84	OG	SER A	9	6.248	22.778	-3.641	1.00	0.00
ATOM 85	H	SER A	9	5.937	25.335	-6.882	1.00	0.00
ATOM 86	HA	SER A	9	6.080	23.222	-6.053	1.00	0.00
ATOM 87	1HB	SER A	9	5.908	24.779	-3.846	1.00	0.00
ATOM 88	2HB	SER A	9	4.470	23.780	-3.630	1.00	0.00
ATOM 89	HG	SER A	9	5.964	21.957	-4.049	1.00	0.00
ATOM 90	N	SER A	10	4.072	21.779	-6.340	1.00	0.00
ATOM 91	CA	SER A	10	2.906	20.975	-6.689	1.00	0.00
ATOM 92	C	SER A	10	2.945	19.622	-5.986	1.00	0.00
ATOM 93	O	SER A	10	4.007	19.156	-5.573	1.00	0.00
ATOM 94	CB	SER A	10	2.836	20.773	-8.205	1.00	0.00
ATOM 95	OG	SER A	10	2.803	22.015	-8.885	1.00	0.00
ATOM 96	H	SER A	10	4.963	21.374	-6.386	1.00	0.00
ATOM 97	HA	SER A	10	2.026	21.510	-6.366	1.00	0.00
ATOM 98	1HB	SER A	10	3.703	20.220	-8.532	1.00	0.00
ATOM 99	2HB	SER A	10	1.942	20.218	-8.450	1.00	0.00
ATOM 100	HG	SER A	10	2.150	22.588	-8.474	1.00	0.00
ATOM 101	N	SER A	11	1.780	18.997	-5.852	1.00	0.00
ATOM 102	CA	SER A	11	1.680	17.696	-5.200	1.00	0.00
ATOM 103	C	SER A	11	2.106	16.579	-6.145	1.00	0.00
ATOM 104	O	SER A	11	2.642	16.835	-7.223	1.00	0.00
ATOM 105	CB	SER A	11	0.249	17.454	-4.716	1.00	0.00
ATOM 106	OG	SER A	11	-0.598	17.089	-5.792	1.00	0.00
ATOM 107	H	SER A	11	0.968	19.420	-6.202	1.00	0.00
ATOM 108	HA	SER A	11	2.342	17.703	-4.347	1.00	0.00

ATOM 109	1HB	SER A	11	0.248	16.655	-3.988	1.00	0.00
ATOM 110	2HB	SER A	11	-0.133	18.355	-4.261	1.00	0.00
ATOM 111	N	GLN A	12	1.865	15.339	-5.734	1.00	0.00
ATOM 112	CA	GLN A	12	2.224	14.182	-6.546	1.00	0.00
ATOM 113	C	GLN A	12	1.302	13.002	-6.255	1.00	0.00
ATOM 114	O	GLN A	12	1.006	12.703	-5.098	1.00	0.00
ATOM 115	CB	GLN A	12	3.678	13.783	-6.287	1.00	0.00
ATOM 116	CG	GLN A	12	4.039	13.720	-4.811	1.00	0.00
ATOM 117	CD	GLN A	12	5.274	14.534	-4.476	1.00	0.00
ATOM 118	OE1	GLN A	12	5.252	15.379	-3.582	1.00	0.00
ATOM 119	NE2	GLN A	12	6.362	14.281	-5.197	1.00	0.00
ATOM 120	H	GLN A	12	1.435	15.198	-4.864	1.00	0.00
ATOM 121	HA	GLN A	12	2.117	14.460	-7.583	1.00	0.00
ATOM 122	1HB	GLN A	12	3.855	12.809	-6.720	1.00	0.00
ATOM 123	2HB	GLN A	12	4.327	14.502	-6.764	1.00	0.00
ATOM 124	1HG	GLN A	12	3.209	14.102	-4.234	1.00	0.00
ATOM 125	2HG	GLN A	12	4.220	12.690	-4.542	1.00	0.00
ATOM 126	1HE2	GLN A	12	6.306	13.594	-5.893	1.00	0.00
ATOM 127	2HE2	GLN A	12	7.175	14.792	-5.000	1.00	0.00
ATOM 128	N	HIS A	13	0.852	12.337	-7.314	1.00	0.00
ATOM 129	CA	HIS A	13	-0.036	11.188	-7.176	1.00	0.00
ATOM 130	C	HIS A	13	0.522	9.979	-7.919	1.00	0.00
ATOM 131	O	HIS A	13	0.625	9.986	-9.147	1.00	0.00
ATOM 132	CB	HIS A	13	-1.430	11.529	-7.707	1.00	0.00
ATOM 133	CG	HIS A	13	-2.052	12.717	-7.039	1.00	0.00
ATOM 134	ND1	HIS A	13	-2.970	13.537	-7.661	1.00	0.00
ATOM 135	CD2	HIS A	13	-1.884	13.221	-5.793	1.00	0.00



ATOM 136	CE1	HIS	A	13	-3.339	14.492	-6.828	1.00	0.00
ATOM 137	NE2	HIS	A	13	-2.695	14.324	-5.688	1.00	0.00
ATOM 138	H	HIS	A	13	1.125	12.624	-8.210	1.00	0.00
ATOM 139	HA	HIS	A	13	-0.109	10.950	-6.126	1.00	0.00
ATOM 140	1HB	HIS	A	13	-1.363	11.741	-8.764	1.00	0.00
ATOM 141	2HB	HIS	A	13	-2.082	10.682	-7.555	1.00	0.00
ATOM 142	HD1	HIS	A	13	-3.300	13.433	-8.579	1.00	0.00
ATOM 143	HD2	HIS	A	13	-1.234	12.827	-5.024	1.00	0.00
ATOM 144	HE1	HIS	A	13	-4.049	15.278	-7.042	1.00	0.00
ATOM 145	HE2	HIS	A	13	-2.719	14.943	-4.929	1.00	0.00
ATOM 146	N	PHE	A	14	0.881	8.942	-7.169	1.00	0.00
ATOM 147	CA	PHE	A	14	1.430	7.727	-7.759	1.00	0.00
ATOM 148	C	PHE	A	14	0.446	6.569	-7.636	1.00	0.00
ATOM 149	O	PHE	A	14	0.030	6.208	-6.536	1.00	0.00
ATOM 150	CB	PHE	A	14	2.754	7.363	-7.087	1.00	0.00
ATOM 151	CG	PHE	A	14	3.916	8.182	-7.571	1.00	0.00
ATOM 152	CD1	PHE	A	14	4.419	9.219	-6.800	1.00	0.00
ATOM 153	CD2	PHE	A	14	4.504	7.918	-8.798	1.00	0.00
ATOM 154	CE1	PHE	A	14	5.487	9.975	-7.245	1.00	0.00
ATOM 155	CE2	PHE	A	14	5.572	8.671	-9.247	1.00	0.00
ATOM 156	CZ	PHE	A	14	6.064	9.701	-8.470	1.00	0.00
ATOM 157	H	PHE	A	14	0.776	8.996	-6.197	1.00	0.00
ATOM 158	HA	PHE	A	14	1.611	7.920	-8.806	1.00	0.00
ATOM 159	1HB	PHE	A	14	2.664	7.513	-6.021	1.00	0.00
ATOM 160	2HB	PHE	A	14	2.975	6.323	-7.281	1.00	0.00
ATOM 161	HD1	PHE	A	14	3.970	9.434	-5.842	1.00	0.00
ATOM 162	HD2	PHE	A	14	4.120	7.113	-9.406	1.00	0.00

ATOM 163	HE1	PHE A	14	5.870	10.781	-6.636	1.00	0.00
ATOM 164	HE2	PHE A	14	6.021	8.454	-10.205	1.00	0.00
ATOM 165	HZ	PHE A	14	6.898	10.292	-8.819	1.00	0.00
ATOM 166	N	ASN A	15	0.076	5.992	-8.775	1.00	0.00
ATOM 167	CA	ASN A	15	-0.862	4.875	-8.799	1.00	0.00
ATOM 168	C	ASN A	15	-0.291	3.664	-8.068	1.00	0.00
ATOM 169	O	ASN A	15	0.779	3.164	-8.414	1.00	0.00
ATOM 170	CB	ASN A	15	-1.204	4.502	-10.244	1.00	0.00
ATOM 171	CG	ASN A	15	-2.697	4.500	-10.503	1.00	0.00
ATOM 172	OD1	ASN A	15	-3.488	4.121	-9.640	1.00	0.00
ATOM 173	ND2	ASN A	15	-3.091	4.926	-11.697	1.00	0.00
ATOM 174	H	ASN A	15	0.442	6.326	-9.620	1.00	0.00
ATOM 175	HA	ASN A	15	-1.763	5.189	-8.297	1.00	0.00
ATOM 176	1HB	ASN A	15	-0.743	5.215	-10.912	1.00	0.00
ATOM 177	2HB	ASN A	15	-0.819	3.515	-10.458	1.00	0.00
ATOM 178	1HD2	ASN A	15	-2.406	5.214	-12.336	1.00	0.00
ATOM 179	2HD2	ASN A	15	-4.052	4.936	-11.892	1.00	0.00
ATOM 180	N	LEU A	16	-1.017	3.194	-7.058	1.00	0.00
ATOM 181	CA	LEU A	16	-0.589	2.039	-6.280	1.00	0.00
ATOM 182	C	LEU A	16	-1.423	0.813	-6.634	1.00	0.00
ATOM 183	O	LEU A	16	-2.624	0.772	-6.366	1.00	0.00
ATOM 184	CB	LEU A	16	-0.704	2.336	-4.783	1.00	0.00
ATOM 185	CG	LEU A	16	-0.068	1.292	-3.865	1.00	0.00
ATOM 186	CD1	LEU A	16	1.451	1.352	-3.963	1.00	0.00
ATOM 187	CD2	LEU A	16	-0.525	1.495	-2.428	1.00	0.00
ATOM 188	H	LEU A	16	-1.864	3.634	-6.833	1.00	0.00
ATOM 189	HA	LEU A	16	0.445	1.840	-6.521	1.00	0.00

ATOM 190	1HB	LEU	A	16	-0.235	3.290	-4.590	1.00	0.00
ATOM 191	2HB	LEU	A	16	-1.751	2.412	-4.533	1.00	0.00
ATOM 192	HG	LEU	A	16	-0.381	0.307	-4.181	1.00	0.00
ATOM 193	1HD1	LEU	A	16	1.808	0.515	-4.542	1.00	0.00
ATOM 194	2HD1	LEU	A	16	1.877	1.311	-2.970	1.00	0.00
ATOM 195	3HD1	LEU	A	16	1.745	2.275	-4.442	1.00	0.00
ATOM 196	1HD2	LEU	A	16	-1.362	2.178	-2.408	1.00	0.00
ATOM 197	2HD2	LEU	A	16	0.287	1.905	-1.845	1.00	0.00
ATOM 198	3HD2	LEU	A	16	-0.826	0.547	-2.008	1.00	0.00
ATOM 199	N	ASN	A	17	-0.785	-0.180	-7.242	1.00	0.00
ATOM 200	CA	ASN	A	17	-1.480	-1.400	-7.637	1.00	0.00
ATOM 201	C	ASN	A	17	-0.665	-2.641	-7.288	1.00	0.00
ATOM 202	O	ASN	A	17	0.563	-2.637	-7.370	1.00	0.00
ATOM 203	CB	ASN	A	17	-1.777	-1.378	-9.137	1.00	0.00
ATOM 204	CG	ASN	A	17	-2.404	-0.072	-9.583	1.00	0.00
ATOM 205	OD1	ASN	A	17	-1.757	0.976	-9.570	1.00	0.00
ATOM 206	ND2	ASN	A	17	-3.669	-0.127	-9.981	1.00	0.00
ATOM 207	H	ASN	A	17	0.172	-0.090	-7.435	1.00	0.00
ATOM 208	HA	ASN	A	17	-2.414	-1.436	-7.097	1.00	0.00
ATOM 209	1HB	ASN	A	17	-0.855	-1.518	-9.683	1.00	0.00
ATOM 210	2HB	ASN	A	17	-2.457	-2.183	-9.375	1.00	0.00
ATOM 211	1HD2	ASN	A	17	-4.122	-0.996	-9.963	1.00	0.00
ATOM 212	2HD2	ASN	A	17	-4.100	0.703	-10.274	1.00	0.00
ATOM 213	N	PHE	A	18	-1.363	-3.705	-6.905	1.00	0.00
ATOM 214	CA	PHE	A	18	-0.721	-4.965	-6.548	1.00	0.00
ATOM 215	C	PHE	A	18	-1.767	-6.015	-6.189	1.00	0.00
ATOM 216	O	PHE	A	18	-2.570	-5.820	-5.277	1.00	0.00

ATOM 217	CB	PHE A	18	0.250	-4.764	-5.381	1.00	0.00
ATOM 218	CG	PHE A	18	-0.417	-4.336	-4.105	1.00	0.00
ATOM 219	CD1	PHE A	18	-0.599	-5.237	-3.067	1.00	0.00
ATOM 220	CD2	PHE A	18	-0.859	-3.033	-3.942	1.00	0.00
ATOM 221	CE1	PHE A	18	-1.208	-4.844	-1.890	1.00	0.00
ATOM 222	CE2	PHE A	18	-1.469	-2.635	-2.768	1.00	0.00
ATOM 223	CZ	PHE A	18	-1.644	-3.542	-1.740	1.00	0.00
ATOM 224	H	PHE A	18	-2.341	-3.643	-6.866	1.00	0.00
ATOM 225	HA	PHE A	18	-0.168	-5.309	-7.409	1.00	0.00
ATOM 226	1HB	PHE A	18	0.766	-5.693	-5.188	1.00	0.00
ATOM 227	2HB	PHE A	18	0.971	-4.007	-5.649	1.00	0.00
ATOM 228	HD1	PHE A	18	-0.257	-6.255	-3.183	1.00	0.00
ATOM 229	HD2	PHE A	18	-0.722	-2.323	-4.744	1.00	0.00
ATOM 230	HE1	PHE A	18	-1.343	-5.556	-1.089	1.00	0.00
ATOM 231	HE2	PHE A	18	-1.808	-1.617	-2.653	1.00	0.00
ATOM 232	HZ	PHE A	18	-2.120	-3.234	-0.821	1.00	0.00
ATOM 233	N	THR A	19	-1.760	-7.124	-6.921	1.00	0.00
ATOM 234	CA	THR A	19	-2.715	-8.200	-6.688	1.00	0.00
ATOM 235	C	THR A	19	-2.369	-8.985	-5.427	1.00	0.00
ATOM 236	O	THR A	19	-1.209	-9.323	-5.190	1.00	0.00
ATOM 237	CB	THR A	19	-2.753	-9.143	-7.891	1.00	0.00
ATOM 238	OG1	THR A	19	-3.061	-8.431	-9.077	1.00	0.00
ATOM 239	CG2	THR A	19	-3.770	-10.255	-7.748	1.00	0.00
ATOM 240	H	THR A	19	-1.100	-7.217	-7.640	1.00	0.00
ATOM 241	HA	THR A	19	-3.690	-7.755	-6.562	1.00	0.00
ATOM 242	HB	THR A	19	-1.781	-9.598	-8.012	1.00	0.00
ATOM 243	HG1	THR A	19	-2.385	-7.767	-9.236	1.00	0.00

ATOM 244	1HG2	THR	A	19	-3.655	-10.726	-6.784	1.00	0.00
ATOM 245	2HG2	THR	A	19	-3.614	-10.988	-8.527	1.00	0.00
ATOM 246	3HG2	THR	A	19	-4.766	-9.846	-7.834	1.00	0.00
ATOM 247	N	ILE	A	20	-3.387	-9.275	-4.622	1.00	0.00
ATOM 248	CA	ILE	A	20	-3.199	-10.025	-3.387	1.00	0.00
ATOM 249	C	ILE	A	20	-3.623	-11.479	-3.563	1.00	0.00
ATOM 250	O	ILE	A	20	-4.601	-11.771	-4.251	1.00	0.00
ATOM 251	CB	ILE	A	20	-4.000	-9.404	-2.223	1.00	0.00
ATOM 252	CG1	ILE	A	20	-3.725	-7.902	-2.128	1.00	0.00
ATOM 253	CG2	ILE	A	20	-3.655	-10.097	-0.910	1.00	0.00
ATOM 254	CD1	ILE	A	20	-4.813	-7.134	-1.408	1.00	0.00
ATOM 255	H	ILE	A	20	-4.289	-8.980	-4.869	1.00	0.00
ATOM 256	HA	ILE	A	20	-2.150	-9.992	-3.133	1.00	0.00
ATOM 257	HB	ILE	A	20	-5.050	-9.560	-2.417	1.00	0.00
ATOM 258	1HG1	ILE	A	20	-2.800	-7.743	-1.595	1.00	0.00
ATOM 259	2HG1	ILE	A	20	-3.635	-7.494	-3.125	1.00	0.00
ATOM 260	1HG2	ILE	A	20	-2.849	-10.798	-1.072	1.00	0.00
ATOM 261	2HG2	ILE	A	20	-4.523	-10.626	-0.545	1.00	0.00
ATOM 262	3HG2	ILE	A	20	-3.351	-9.360	-0.183	1.00	0.00
ATOM 263	1HD1	ILE	A	20	-5.677	-7.048	-2.049	1.00	0.00
ATOM 264	2HD1	ILE	A	20	-4.452	-6.149	-1.156	1.00	0.00
ATOM 265	3HD1	ILE	A	20	-5.086	-7.659	-0.505	1.00	0.00
ATOM 266	N	THR	A	21	-2.881	-12.388	-2.939	1.00	0.00
ATOM 267	CA	THR	A	21	-3.181	-13.813	-3.030	1.00	0.00
ATOM 268	C	THR	A	21	-3.746	-14.341	-1.713	1.00	0.00
ATOM 269	O	THR	A	21	-3.669	-15.537	-1.432	1.00	0.00
ATOM 270	CB	THR	A	21	-1.924	-14.596	-3.409	1.00	0.00

ATOM 271	OG1	THR	A	21	-0.966	-14.541	-2.366	1.00	0.00
ATOM 272	CG2	THR	A	21	-1.260	-14.087	-4.671	1.00	0.00
ATOM 273	H	THR	A	21	-2.114	-12.095	-2.405	1.00	0.00
ATOM 274	HA	THR	A	21	-3.923	-13.946	-3.803	1.00	0.00
ATOM 275	HB	THR	A	21	-2.191	-15.630	-3.569	1.00	0.00
ATOM 276	HG1	THR	A	21	-1.326	-14.953	-1.579	1.00	0.00
ATOM 277	1HG2	THR	A	21	-0.189	-14.073	-4.533	1.00	0.00
ATOM 278	2HG2	THR	A	21	-1.610	-13.089	-4.884	1.00	0.00
ATOM 279	3HG2	THR	A	21	-1.507	-14.740	-5.495	1.00	0.00
ATOM 280	N	ASN	A	22	-4.311	-13.445	-0.910	1.00	0.00
ATOM 281	CA	ASN	A	22	-4.886	-13.827	0.376	1.00	0.00
ATOM 282	C	ASN	A	22	-6.377	-13.502	0.428	1.00	0.00
ATOM 283	O	ASN	A	22	-7.146	-14.186	1.104	1.00	0.00
ATOM 284	CB	ASN	A	22	-4.153	-13.116	1.515	1.00	0.00
ATOM 285	CG	ASN	A	22	-3.593	-14.088	2.537	1.00	0.00
ATOM 286	OD1	ASN	A	22	-3.128	-15.172	2.188	1.00	0.00
ATOM 287	ND2	ASN	A	22	-3.638	-13.702	3.807	1.00	0.00
ATOM 288	H	ASN	A	22	-4.342	-12.507	-1.187	1.00	0.00
ATOM 289	HA	ASN	A	22	-4.760	-14.893	0.489	1.00	0.00
ATOM 290	1HB	ASN	A	22	-3.334	-12.543	1.107	1.00	0.00
ATOM 291	2HB	ASN	A	22	-4.838	-12.448	2.018	1.00	0.00
ATOM 292	1HD2	ASN	A	22	-4.024	-12.824	4.010	1.00	0.00
ATOM 293	2HD2	ASN	A	22	-3.284	-14.311	4.488	1.00	0.00
ATOM 294	N	LEU	A	23	-6.779	-12.455	-0.284	1.00	0.00
ATOM 295	CA	LEU	A	23	-8.178	-12.041	-0.316	1.00	0.00
ATOM 296	C	LEU	A	23	-8.916	-12.696	-1.484	1.00	0.00
ATOM 297	O	LEU	A	23	-8.728	-12.309	-2.637	1.00	0.00

ATOM 298	CB	LEU A	23	-8.275	-10.519	-0.429	1.00	0.00
ATOM 299	CG	LEU A	23	-9.560	-9.907	0.128	1.00	0.00
ATOM 300	CD1	LEU A	23	-10.781	-10.570	-0.491	1.00	0.00
ATOM 301	CD2	LEU A	23	-9.595	-10.032	1.645	1.00	0.00
ATOM 302	H	LEU A	23	-6.121	-11.947	-0.801	1.00	0.00
ATOM 303	HA	LEU A	23	-8.636	-12.354	0.610	1.00	0.00
ATOM 304	1HB	LEU A	23	-7.437	-10.086	0.098	1.00	0.00
ATOM 305	2HB	LEU A	23	-8.199	-10.251	-1.473	1.00	0.00
ATOM 306	HG	LEU A	23	-9.590	-8.857	-0.122	1.00	0.00
ATOM 307	1HD1	LEU A	23	-11.676	-10.095	-0.119	1.00	0.00
ATOM 308	2HD1	LEU A	23	-10.793	-11.617	-0.230	1.00	0.00
ATOM 309	3HD1	LEU A	23	-10.739	-10.468	-1.565	1.00	0.00
ATOM 310	1HD2	LEU A	23	-10.587	-9.797	2.003	1.00	0.00
ATOM 311	2HD2	LEU A	23	-8.884	-9.344	2.079	1.00	0.00
ATOM 312	3HD2	LEU A	23	-9.340	-11.042	1.929	1.00	0.00
ATOM 313	N	PRO A	24	-9.768	-13.699	-1.204	1.00	0.00
ATOM 314	CA	PRO A	24	-10.530	-14.397	-2.245	1.00	0.00
ATOM 315	C	PRO A	24	-11.648	-13.535	-2.820	1.00	0.00
ATOM 316	O	PRO A	24	-12.604	-13.197	-2.124	1.00	0.00
ATOM 317	CB	PRO A	24	-11.110	-15.604	-1.507	1.00	0.00
ATOM 318	CG	PRO A	24	-11.219	-15.160	-0.090	1.00	0.00
ATOM 319	CD	PRO A	24	-10.060	-14.229	0.142	1.00	0.00
ATOM 320	HA	PRO A	24	-9.887	-14.735	-3.044	1.00	0.00
ATOM 321	1HB	PRO A	24	-12.077	-15.851	-1.921	1.00	0.00
ATOM 322	2HB	PRO A	24	-10.443	-16.447	-1.606	1.00	0.00
ATOM 323	1HG	PRO A	24	-12.154	-14.640	0.061	1.00	0.00
ATOM 324	2HG	PRO A	24	-11.153	-16.013	0.568	1.00	0.00

ATOM 325	1HD	PRO	A	24	-10.342	-13.436	0.817	1.00	0.00
ATOM 326	2HD	PRO	A	24	-9.212	-14.774	0.532	1.00	0.00
ATOM 327	N	TYR	A	25	-11.521	-13.183	-4.096	1.00	0.00
ATOM 328	CA	TYR	A	25	-12.522	-12.361	-4.765	1.00	0.00
ATOM 329	C	TYR	A	25	-13.873	-13.067	-4.800	1.00	0.00
ATOM 330	O	TYR	A	25	-13.988	-14.182	-5.309	1.00	0.00
ATOM 331	CB	TYR	A	25	-12.071	-12.028	-6.188	1.00	0.00
ATOM 332	CG	TYR	A	25	-12.945	-11.004	-6.877	1.00	0.00
ATOM 333	CD1	TYR	A	25	-14.185	-11.357	-7.394	1.00	0.00
ATOM 334	CD2	TYR	A	25	-12.530	-9.685	-7.012	1.00	0.00
ATOM 335	CE1	TYR	A	25	-14.987	-10.425	-8.024	1.00	0.00
ATOM 336	CE2	TYR	A	25	-13.327	-8.747	-7.641	1.00	0.00
ATOM 337	CZ	TYR	A	25	-14.554	-9.122	-8.145	1.00	0.00
ATOM 338	OH	TYR	A	25	-15.350	-8.190	-8.771	1.00	0.00
ATOM 339	H	TYR	A	25	-10.735	-13.485	-4.599	1.00	0.00
ATOM 340	HA	TYR	A	25	-12.624	-11.443	-4.205	1.00	0.00
ATOM 341	1HB	TYR	A	25	-11.064	-11.636	-6.157	1.00	0.00
ATOM 342	2HB	TYR	A	25	-12.082	-12.930	-6.782	1.00	0.00
ATOM 343	HD1	TYR	A	25	-14.522	-12.379	-7.298	1.00	0.00
ATOM 344	HD2	TYR	A	25	-11.567	-9.395	-6.616	1.00	0.00
ATOM 345	HE1	TYR	A	25	-15.948	-10.719	-8.418	1.00	0.00
ATOM 346	HE2	TYR	A	25	-12.986	-7.726	-7.735	1.00	0.00
ATOM 347	HH	TYR	A	25	-14.834	-7.718	-9.428	1.00	0.00
ATOM 348	N	SER	A	26	-14.893	-12.412	-4.254	1.00	0.00
ATOM 349	CA	SER	A	26	-16.237	-12.977	-4.224	1.00	0.00
ATOM 350	C	SER	A	26	-17.258	-11.978	-4.759	1.00	0.00
ATOM 351	O	SER	A	26	-16.911	-10.855	-5.126	1.00	0.00



ATOM 352	CB	SER A	26	-16.607	-13.389	-2.798	1.00	0.00
ATOM 353	OG	SER A	26	-15.920	-12.598	-1.843	1.00	0.00
ATOM 354	H	SER A	26	-14.737	-11.525	-3.864	1.00	0.00
ATOM 355	HA	SER A	26	-16.242	-13.852	-4.855	1.00	0.00
ATOM 356	1HB	SER A	26	-17.670	-13.261	-2.653	1.00	0.00
ATOM 357	2HB	SER A	26	-16.345	-14.425	-2.646	1.00	0.00
ATOM 358	HG	SER A	26	-16.105	-12.928	-0.961	1.00	0.00
ATOM 359	N	GLN A	27	-18.520	-12.396	-4.800	1.00	0.00
ATOM 360	CA	GLN A	27	-19.593	-11.538	-5.290	1.00	0.00
ATOM 361	C	GLN A	27	-19.696	-10.265	-4.456	1.00	0.00
ATOM 362	O	GLN A	27	-20.080	-9.210	-4.961	1.00	0.00
ATOM 363	CB	GLN A	27	-20.926	-12.288	-5.262	1.00	0.00
ATOM 364	CG	GLN A	27	-20.894	-13.615	-6.004	1.00	0.00
ATOM 365	CD	GLN A	27	-21.430	-13.502	-7.418	1.00	0.00
ATOM 366	OE1	GLN A	27	-22.495	-14.033	-7.735	1.00	0.00
ATOM 367	NE2	GLN A	27	-20.691	-12.810	-8.278	1.00	0.00
ATOM 368	H	GLN A	27	-18.734	-13.301	-4.494	1.00	0.00
ATOM 369	HA	GLN A	27	-19.363	-11.269	-6.309	1.00	0.00
ATOM 370	1HB	GLN A	27	-21.195	-12.483	-4.233	1.00	0.00
ATOM 371	2HB	GLN A	27	-21.685	-11.666	-5.712	1.00	0.00
ATOM 372	1HG	GLN A	27	-19.873	-13.962	-6.049	1.00	0.00
ATOM 373	2HG	GLN A	27	-21.495	-14.330	-5.462	1.00	0.00
ATOM 374	1HE2	GLN A	27	-19.854	-12.416	-7.955	1.00	0.00
ATOM 375	2HE2	GLN A	27	-21.015	-12.722	-9.198	1.00	0.00
ATOM 376	N	ASP A	28	-19.352	-10.372	-3.177	1.00	0.00
ATOM 377	CA	ASP A	28	-19.406	-9.229	-2.272	1.00	0.00
ATOM 378	C	ASP A	28	-18.455	-8.127	-2.725	1.00	0.00

ATOM 379	O	ASP	A	28	-18.833	-6.958	-2.801	1.00	0.00
ATOM 380	CB	ASP	A	28	-19.059	-9.667	-0.847	1.00	0.00
ATOM 381	CG	ASP	A	28	-20.181	-10.449	-0.193	1.00	0.00
ATOM 382	OD1	ASP	A	28	-20.544	-10.120	0.956	1.00	0.00
ATOM 383	OD2	ASP	A	28	-20.698	-11.392	-0.830	1.00	0.00
ATOM 384	H	ASP	A	28	-19.055	-11.240	-2.833	1.00	0.00
ATOM 385	HA	ASP	A	28	-20.415	-8.845	-2.285	1.00	0.00
ATOM 386	1HB	ASP	A	28	-18.178	-10.290	-0.873	1.00	0.00
ATOM 387	2HB	ASP	A	28	-18.858	-8.791	-0.247	1.00	0.00
ATOM 388	N	ILE	A	29	-17.217	-8.507	-3.025	1.00	0.00
ATOM 389	CA	ILE	A	29	-16.209	-7.551	-3.470	1.00	0.00
ATOM 390	C	ILE	A	29	-16.516	-7.021	-4.869	1.00	0.00
ATOM 391	O	ILE	A	29	-15.915	-6.045	-5.316	1.00	0.00
ATOM 392	CB	ILE	A	29	-14.802	-8.181	-3.472	1.00	0.00
ATOM 393	CG1	ILE	A	29	-14.530	-8.884	-2.141	1.00	0.00
ATOM 394	CG2	ILE	A	29	-13.746	-7.119	-3.741	1.00	0.00
ATOM 395	CD1	ILE	A	29	-14.653	-7.974	-0.939	1.00	0.00
ATOM 396	H	ILE	A	29	-16.975	-9.454	-2.944	1.00	0.00
ATOM 397	HA	ILE	A	29	-16.207	-6.724	-2.776	1.00	0.00
ATOM 398	HB	ILE	A	29	-14.758	-8.906	-4.270	1.00	0.00
ATOM 399	1HG1	ILE	A	29	-15.235	-9.693	-2.017	1.00	0.00
ATOM 400	2HG1	ILE	A	29	-13.527	-9.286	-2.153	1.00	0.00
ATOM 401	1HG2	ILE	A	29	-13.509	-7.107	-4.795	1.00	0.00
ATOM 402	2HG2	ILE	A	29	-12.855	-7.346	-3.174	1.00	0.00
ATOM 403	3HG2	ILE	A	29	-14.125	-6.152	-3.446	1.00	0.00
ATOM 404	1HD1	ILE	A	29	-14.123	-7.052	-1.129	1.00	0.00
ATOM 405	2HD1	ILE	A	29	-14.230	-8.461	-0.074	1.00	0.00

ATOM 406	3HD1	ILE	A	29	-15.695	-7.757	-0.756	1.00	0.00
ATOM 407	N	ALA	A	30	-17.451	-7.670	-5.560	1.00	0.00
ATOM 408	CA	ALA	A	30	-17.827	-7.257	-6.907	1.00	0.00
ATOM 409	C	ALA	A	30	-18.899	-6.170	-6.884	1.00	0.00
ATOM 410	O	ALA	A	30	-19.111	-5.477	-7.878	1.00	0.00
ATOM 411	CB	ALA	A	30	-18.311	-8.456	-7.709	1.00	0.00
ATOM 412	H	ALA	A	30	-17.897	-8.443	-5.157	1.00	0.00
ATOM 413	HA	ALA	A	30	-16.945	-6.864	-7.392	1.00	0.00
ATOM 414	1HB	ALA	A	30	-17.867	-9.357	-7.312	1.00	0.00
ATOM 415	2HB	ALA	A	30	-18.022	-8.337	-8.743	1.00	0.00
ATOM 416	3HB	ALA	A	30	-19.386	-8.524	-7.642	1.00	0.00
ATOM 417	N	GLN	A	31	-19.575	-6.023	-5.747	1.00	0.00
ATOM 418	CA	GLN	A	31	-20.624	-5.018	-5.609	1.00	0.00
ATOM 419	C	GLN	A	31	-20.373	-4.131	-4.390	1.00	0.00
ATOM 420	O	GLN	A	31	-20.358	-4.614	-3.258	1.00	0.00
ATOM 421	CB	GLN	A	31	-21.990	-5.696	-5.484	1.00	0.00
ATOM 422	CG	GLN	A	31	-22.546	-6.192	-6.810	1.00	0.00
ATOM 423	CD	GLN	A	31	-24.046	-6.002	-6.921	1.00	0.00
ATOM 424	OE1	GLN	A	31	-24.744	-5.879	-5.914	1.00	0.00
ATOM 425	NE2	GLN	A	31	-24.551	-5.980	-8.149	1.00	0.00
ATOM 426	H	GLN	A	31	-19.366	-6.603	-4.985	1.00	0.00
ATOM 427	HA	GLN	A	31	-20.616	-4.409	-6.498	1.00	0.00
ATOM 428	1HB	GLN	A	31	-21.900	-6.541	-4.818	1.00	0.00
ATOM 429	2HB	GLN	A	31	-22.692	-4.990	-5.066	1.00	0.00
ATOM 430	1HG	GLN	A	31	-22.070	-5.648	-7.612	1.00	0.00
ATOM 431	2HG	GLN	A	31	-22.322	-7.244	-6.908	1.00	0.00
ATOM 432	1HE2	GLN	A	31	-23.935	-6.084	-8.905	1.00	0.00

ATOM 433	2HE2	GLN	A	31	-25.518	-5.858	-8.249	1.00	0.00
ATOM 434	N	PRO	A	32	-20.170	-2.813	-4.599	1.00	0.00
ATOM 435	CA	PRO	A	32	-19.922	-1.869	-3.505	1.00	0.00
ATOM 436	C	PRO	A	32	-21.152	-1.677	-2.621	1.00	0.00
ATOM 437	O	PRO	A	32	-21.698	-0.578	-2.522	1.00	0.00
ATOM 438	CB	PRO	A	32	-19.563	-0.555	-4.215	1.00	0.00
ATOM 439	CG	PRO	A	32	-19.333	-0.920	-5.644	1.00	0.00
ATOM 440	CD	PRO	A	32	-20.165	-2.140	-5.904	1.00	0.00
ATOM 441	HA	PRO	A	32	-19.092	-2.188	-2.892	1.00	0.00
ATOM 442	1HB	PRO	A	32	-20.380	0.146	-4.117	1.00	0.00
ATOM 443	2HB	PRO	A	32	-18.672	-0.137	-3.771	1.00	0.00
ATOM 444	1HG	PRO	A	32	-19.651	-0.110	-6.282	1.00	0.00
ATOM 445	2HG	PRO	A	32	-18.287	-1.137	-5.804	1.00	0.00
ATOM 446	1HD	PRO	A	32	-21.165	-1.863	-6.203	1.00	0.00
ATOM 447	2HD	PRO	A	32	-19.700	-2.759	-6.657	1.00	0.00
ATOM 448	N	SER	A	33	-21.579	-2.758	-1.983	1.00	0.00
ATOM 449	CA	SER	A	33	-22.743	-2.723	-1.106	1.00	0.00
ATOM 450	C	SER	A	33	-22.594	-3.724	0.036	1.00	0.00
ATOM 451	O	SER	A	33	-22.940	-3.432	1.180	1.00	0.00
ATOM 452	CB	SER	A	33	-24.015	-3.024	-1.901	1.00	0.00
ATOM 453	OG	SER	A	33	-25.170	-2.602	-1.197	1.00	0.00
ATOM 454	H	SER	A	33	-21.099	-3.600	-2.107	1.00	0.00
ATOM 455	HA	SER	A	33	-22.816	-1.729	-0.690	1.00	0.00
ATOM 456	1HB	SER	A	33	-23.977	-2.506	-2.847	1.00	0.00
ATOM 457	2HB	SER	A	33	-24.083	-4.089	-2.076	1.00	0.00
ATOM 458	HG	SER	A	33	-25.113	-1.660	-1.024	1.00	0.00
ATOM 459	N	THR	A	34	-22.076	-4.906	-0.284	1.00	0.00

ATOM 460	CA	THR A	34	-21.881	-5.952	0.713	1.00	0.00
ATOM 461	C	THR A	34	-20.922	-5.494	1.806	1.00	0.00
ATOM 462	O	THR A	34	-20.382	-4.389	1.750	1.00	0.00
ATOM 463	CB	THR A	34	-21.344	-7.221	0.049	1.00	0.00
ATOM 464	OG1	THR A	34	-20.101	-6.970	-0.580	1.00	0.00
ATOM 465	CG2	THR A	34	-22.279	-7.795	-0.993	1.00	0.00
ATOM 466	H	THR A	34	-21.820	-5.080	-1.214	1.00	0.00
ATOM 467	HA	THR A	34	-22.840	-6.168	1.159	1.00	0.00
ATOM 468	HB	THR A	34	-21.194	-7.976	0.809	1.00	0.00
ATOM 469	HG1	THR A	34	-20.183	-6.210	-1.161	1.00	0.00
ATOM 470	1HG2	THR A	34	-22.333	-8.867	-0.878	1.00	0.00
ATOM 471	2HG2	THR A	34	-21.908	-7.557	-1.979	1.00	0.00
ATOM 472	3HG2	THR A	34	-23.264	-7.369	-0.867	1.00	0.00
ATOM 473	N	THR A	35	-20.713	-6.352	2.799	1.00	0.00
ATOM 474	CA	THR A	35	-19.818	-6.039	3.907	1.00	0.00
ATOM 475	C	THR A	35	-18.369	-6.332	3.536	1.00	0.00
ATOM 476	O	THR A	35	-17.459	-5.590	3.906	1.00	0.00
ATOM 477	CB	THR A	35	-20.211	-6.840	5.149	1.00	0.00
ATOM 478	OG1	THR A	35	-21.563	-6.600	5.494	1.00	0.00
ATOM 479	CG2	THR A	35	-19.363	-6.519	6.361	1.00	0.00
ATOM 480	H	THR A	35	-21.172	-7.218	2.786	1.00	0.00
ATOM 481	HA	THR A	35	-19.915	-4.985	4.124	1.00	0.00
ATOM 482	HB	THR A	35	-20.097	-7.894	4.935	1.00	0.00
ATOM 483	HG1	THR A	35	-21.836	-7.221	6.174	1.00	0.00
ATOM 484	1HG2	THR A	35	-19.794	-6.986	7.235	1.00	0.00
ATOM 485	2HG2	THR A	35	-19.329	-5.450	6.505	1.00	0.00
ATOM 486	3HG2	THR A	35	-18.362	-6.895	6.210	1.00	0.00

ATOM 487	N	LYS A	36	-18.161	-7.422	2.803	1.00	0.00
ATOM 488	CA	LYS A	36	-16.822	-7.817	2.380	1.00	0.00
ATOM 489	C	LYS A	36	-16.160	-6.718	1.556	1.00	0.00
ATOM 490	O	LYS A	36	-14.962	-6.469	1.684	1.00	0.00
ATOM 491	CB	LYS A	36	-16.884	-9.111	1.566	1.00	0.00
ATOM 492	CG	LYS A	36	-15.635	-9.969	1.692	1.00	0.00
ATOM 493	CD	LYS A	36	-15.646	-10.782	2.976	1.00	0.00
ATOM 494	CE	LYS A	36	-14.250	-10.910	3.565	1.00	0.00
ATOM 495	NZ	LYS A	36	-13.446	-11.953	2.869	1.00	0.00
ATOM 496	H	LYS A	36	-18.927	-7.973	2.539	1.00	0.00
ATOM 497	HA	LYS A	36	-16.232	-7.990	3.268	1.00	0.00
ATOM 498	1HB	LYS A	36	-17.729	-9.693	1.901	1.00	0.00
ATOM 499	2HB	LYS A	36	-17.019	-8.861	0.524	1.00	0.00
ATOM 500	1HG	LYS A	36	-15.587	-10.644	0.851	1.00	0.00
ATOM 501	2HG	LYS A	36	-14.767	-9.326	1.691	1.00	0.00
ATOM 502	1HD	LYS A	36	-16.285	-10.293	3.695	1.00	0.00
ATOM 503	2HD	LYS A	36	-16.028	-11.770	2.762	1.00	0.00
ATOM 504	1HE	LYS A	36	-13.746	-9.960	3.473	1.00	0.00
ATOM 505	2HE	LYS A	36	-14.336	-11.171	4.610	1.00	0.00
ATOM 506	1HZ	LYS A	36	-12.447	-11.880	3.148	1.00	0.00
ATOM 507	2HZ	LYS A	36	-13.516	-11.829	1.839	1.00	0.00
ATOM 508	3HZ	LYS A	36	-13.797	-12.900	3.118	1.00	0.00
ATOM 509	N	TYR A	37	-16.949	-6.064	0.709	1.00	0.00
ATOM 510	CA	TYR A	37	-16.438	-4.993	-0.138	1.00	0.00
ATOM 511	C	TYR A	37	-15.857	-3.861	0.706	1.00	0.00
ATOM 512	O	TYR A	37	-14.745	-3.398	0.457	1.00	0.00
ATOM 513	CB	TYR A	37	-17.550	-4.455	-1.042	1.00	0.00

ATOM 514	CG	TYR A	37	-17.097	-3.346	-1.966	1.00	0.00
ATOM 515	CD1	TYR A	37	-16.984	-2.039	-1.510	1.00	0.00
ATOM 516	CD2	TYR A	37	-16.784	-3.608	-3.293	1.00	0.00
ATOM 517	CE1	TYR A	37	-16.571	-1.024	-2.352	1.00	0.00
ATOM 518	CE2	TYR A	37	-16.370	-2.598	-4.142	1.00	0.00
ATOM 519	CZ	TYR A	37	-16.265	-1.308	-3.666	1.00	0.00
ATOM 520	OH	TYR A	37	-15.854	-0.300	-4.507	1.00	0.00
ATOM 521	H	TYR A	37	-17.896	-6.309	0.651	1.00	0.00
ATOM 522	HA	TYR A	37	-15.654	-5.404	-0.754	1.00	0.00
ATOM 523	1HB	TYR A	37	-17.927	-5.261	-1.653	1.00	0.00
ATOM 524	2HB	TYR A	37	-18.351	-4.071	-0.428	1.00	0.00
ATOM 525	HD1	TYR A	37	-17.224	-1.819	-0.481	1.00	0.00
ATOM 526	HD2	TYR A	37	-16.868	-4.620	-3.664	1.00	0.00
ATOM 527	HE1	TYR A	37	-16.489	-0.014	-1.979	1.00	0.00
ATOM 528	HE2	TYR A	37	-16.132	-2.822	-5.171	1.00	0.00
ATOM 529	HH	TYR A	37	-16.285	-0.397	-5.359	1.00	0.00
ATOM 530	N	GLN A	38	-16.617	-3.421	1.704	1.00	0.00
ATOM 531	CA	GLN A	38	-16.173	-2.344	2.583	1.00	0.00
ATOM 532	C	GLN A	38	-15.093	-2.836	3.540	1.00	0.00
ATOM 533	O	GLN A	38	-14.162	-2.102	3.871	1.00	0.00
ATOM 534	CB	GLN A	38	-17.355	-1.784	3.375	1.00	0.00
ATOM 535	CG	GLN A	38	-18.323	-0.972	2.528	1.00	0.00
ATOM 536	CD	GLN A	38	-19.673	-1.644	2.378	1.00	0.00
ATOM 537	OE1	GLN A	38	-20.181	-2.261	3.314	1.00	0.00
ATOM 538	NE2	GLN A	38	-20.262	-1.532	1.192	1.00	0.00
ATOM 539	H	GLN A	38	-17.495	-3.830	1.854	1.00	0.00
ATOM 540	HA	GLN A	38	-15.761	-1.561	1.964	1.00	0.00

ATOM 541	1HB	GLN A	38	-17.899	-2.604	3.819	1.00	0.00
ATOM 542	2HB	GLN A	38	-16.977	-1.147	4.160	1.00	0.00
ATOM 543	1HG	GLN A	38	-18.469	-0.009	2.995	1.00	0.00
ATOM 544	2HG	GLN A	38	-17.894	-0.834	1.547	1.00	0.00
ATOM 545	1HE2	GLN A	38	-19.799	-1.026	0.492	1.00	0.00
ATOM 546	2HE2	GLN A	38	-21.136	-1.958	1.067	1.00	0.00
ATOM 547	N	GLN A	39	-15.222	-4.084	3.979	1.00	0.00
ATOM 548	CA	GLN A	39	-14.256	-4.675	4.898	1.00	0.00
ATOM 549	C	GLN A	39	-12.864	-4.707	4.275	1.00	0.00
ATOM 550	O	GLN A	39	-11.911	-4.162	4.831	1.00	0.00
ATOM 551	CB	GLN A	39	-14.692	-6.090	5.285	1.00	0.00
ATOM 552	CG	GLN A	39	-15.207	-6.200	6.711	1.00	0.00
ATOM 553	CD	GLN A	39	-14.692	-7.436	7.422	1.00	0.00
ATOM 554	OE1	GLN A	39	-14.327	-7.384	8.597	1.00	0.00
ATOM 555	NE2	GLN A	39	-14.657	-8.557	6.711	1.00	0.00
ATOM 556	H	GLN A	39	-15.985	-4.619	3.678	1.00	0.00
ATOM 557	HA	GLN A	39	-14.226	-4.062	5.787	1.00	0.00
ATOM 558	1HB	GLN A	39	-15.479	-6.406	4.617	1.00	0.00
ATOM 559	2HB	GLN A	39	-13.850	-6.759	5.176	1.00	0.00
ATOM 560	1HG	GLN A	39	-14.889	-5.328	7.262	1.00	0.00
ATOM 561	2HG	GLN A	39	-16.286	-6.238	6.688	1.00	0.00
ATOM 562	1HE2	GLN A	39	-14.962	-8.524	5.780	1.00	0.00
ATOM 563	2HE2	GLN A	39	-14.329	-9.372	7.146	1.00	0.00
ATOM 564	N	THR A	40	-12.755	-5.351	3.117	1.00	0.00
ATOM 565	CA	THR A	40	-11.480	-5.457	2.419	1.00	0.00
ATOM 566	C	THR A	40	-10.960	-4.078	2.024	1.00	0.00
ATOM 567	O	THR A	40	-9.766	-3.798	2.134	1.00	0.00



ATOM 568	CB	THR A	40	-11.625	-6.334	1.175	1.00	0.00
ATOM 569	OG1	THR A	40	-12.130	-7.612	1.518	1.00	0.00
ATOM 570	CG2	THR A	40	-10.324	-6.539	0.430	1.00	0.00
ATOM 571	H	THR A	40	-13.551	-5.767	2.724	1.00	0.00
ATOM 572	HA	THR A	40	-10.770	-5.916	3.090	1.00	0.00
ATOM 573	HB	THR A	40	-12.324	-5.865	0.496	1.00	0.00
ATOM 574	HG1	THR A	40	-12.419	-8.067	0.724	1.00	0.00
ATOM 575	1HG2	THR A	40	-9.829	-5.588	0.302	1.00	0.00
ATOM 576	2HG2	THR A	40	-10.527	-6.974	-0.538	1.00	0.00
ATOM 577	3HG2	THR A	40	-9.686	-7.203	0.997	1.00	0.00
ATOM 578	N	LYS A	41	-11.864	-3.219	1.564	1.00	0.00
ATOM 579	CA	LYS A	41	-11.497	-1.869	1.153	1.00	0.00
ATOM 580	C	LYS A	41	-10.855	-1.104	2.306	1.00	0.00
ATOM 581	O	LYS A	41	-9.921	-0.327	2.106	1.00	0.00
ATOM 582	CB	LYS A	41	-12.728	-1.114	0.648	1.00	0.00
ATOM 583	CG	LYS A	41	-12.393	0.162	-0.106	1.00	0.00
ATOM 584	CD	LYS A	41	-13.623	1.035	-0.296	1.00	0.00
ATOM 585	CE	LYS A	41	-13.372	2.138	-1.312	1.00	0.00
ATOM 586	NZ	LYS A	41	-14.637	2.795	-1.743	1.00	0.00
ATOM 587	H	LYS A	41	-12.801	-3.500	1.500	1.00	0.00
ATOM 588	HA	LYS A	41	-10.782	-1.951	0.349	1.00	0.00
ATOM 589	1HB	LYS A	41	-13.287	-1.761	-0.012	1.00	0.00
ATOM 590	2HB	LYS A	41	-13.349	-0.854	1.494	1.00	0.00
ATOM 591	1HG	LYS A	41	-11.654	0.716	0.451	1.00	0.00
ATOM 592	2HG	LYS A	41	-11.995	-0.099	-1.076	1.00	0.00
ATOM 593	1HD	LYS A	41	-14.440	0.420	-0.643	1.00	0.00
ATOM 594	2HD	LYS A	41	-13.884	1.484	0.652	1.00	0.00

ATOM 595	1HE	LYS	A	41	-12.725	2.879	-0.867	1.00	0.00
ATOM 596	2HE	LYS	A	41	-12.886	1.710	-2.176	1.00	0.00
ATOM 597	1HZ	LYS	A	41	-14.426	3.653	-2.292	1.00	0.00
ATOM 598	2HZ	LYS	A	41	-15.204	3.060	-0.912	1.00	0.00
ATOM 599	3HZ	LYS	A	41	-15.194	2.146	-2.335	1.00	0.00
ATOM 600	N	ARG	A	42	-11.361	-1.329	3.514	1.00	0.00
ATOM 601	CA	ARG	A	42	-10.837	-0.662	4.700	1.00	0.00
ATOM 602	C	ARG	A	42	-9.636	-1.417	5.262	1.00	0.00
ATOM 603	O	ARG	A	42	-8.719	-0.816	5.822	1.00	0.00
ATOM 604	CB	ARG	A	42	-11.929	-0.541	5.766	1.00	0.00
ATOM 605	CG	ARG	A	42	-12.156	0.885	6.243	1.00	0.00
ATOM 606	CD	ARG	A	42	-13.439	1.468	5.671	1.00	0.00
ATOM 607	NE	ARG	A	42	-14.515	1.493	6.657	1.00	0.00
ATOM 608	CZ	ARG	A	42	-15.805	1.609	6.344	1.00	0.00
ATOM 609	NH1	ARG	A	42	-16.180	1.710	5.077	1.00	0.00
ATOM 610	NH2	ARG	A	42	-16.720	1.623	7.304	1.00	0.00
ATOM 611	H	ARG	A	42	-12.105	-1.960	3.610	1.00	0.00
ATOM 612	HA	ARG	A	42	-10.520	0.328	4.409	1.00	0.00
ATOM 613	1HB	ARG	A	42	-12.856	-0.915	5.359	1.00	0.00
ATOM 614	2HB	ARG	A	42	-11.652	-1.143	6.620	1.00	0.00
ATOM 615	1HG	ARG	A	42	-12.221	0.888	7.320	1.00	0.00
ATOM 616	2HG	ARG	A	42	-11.322	1.497	5.929	1.00	0.00
ATOM 617	1HD	ARG	A	42	-13.244	2.477	5.339	1.00	0.00
ATOM 618	2HD	ARG	A	42	-13.748	0.867	4.828	1.00	0.00
ATOM 619	HE	ARG	A	42	-14.266	1.421	7.602	1.00	0.00
ATOM 620	1HH1	ARG	A	42	-15.496	1.700	4.348	1.00	0.00
ATOM 621	2HH1	ARG	A	42	-17.150	1.795	4.848	1.00	0.00

ATOM 622	1HH2	ARG	A	42	-16.442	1.546	8.262	1.00	0.00
ATOM 623	2HH2	ARG	A	42	-17.688	1.710	7.070	1.00	0.00
ATOM 624	N	SER	A	43	-9.647	-2.737	5.107	1.00	0.00
ATOM 625	CA	SER	A	43	-8.560	-3.574	5.599	1.00	0.00
ATOM 626	C	SER	A	43	-7.238	-3.188	4.942	1.00	0.00
ATOM 627	O	SER	A	43	-6.220	-3.031	5.617	1.00	0.00
ATOM 628	CB	SER	A	43	-8.862	-5.049	5.335	1.00	0.00
ATOM 629	OG	SER	A	43	-8.395	-5.865	6.396	1.00	0.00
ATOM 630	H	SER	A	43	-10.407	-3.158	4.653	1.00	0.00
ATOM 631	HA	SER	A	43	-8.477	-3.417	6.665	1.00	0.00
ATOM 632	1HB	SER	A	43	-9.929	-5.184	5.239	1.00	0.00
ATOM 633	2HB	SER	A	43	-8.377	-5.356	4.420	1.00	0.00
ATOM 634	HG	SER	A	43	-8.822	-5.602	7.214	1.00	0.00
ATOM 635	N	ILE	A	44	-7.263	-3.035	3.623	1.00	0.00
ATOM 636	CA	ILE	A	44	-6.067	-2.666	2.875	1.00	0.00
ATOM 637	C	ILE	A	44	-5.680	-1.216	3.144	1.00	0.00
ATOM 638	O	ILE	A	44	-4.509	-0.906	3.366	1.00	0.00
ATOM 639	CB	ILE	A	44	-6.268	-2.861	1.359	1.00	0.00
ATOM 640	CG1	ILE	A	44	-6.796	-4.267	1.070	1.00	0.00
ATOM 641	CG2	ILE	A	44	-4.964	-2.617	0.613	1.00	0.00
ATOM 642	CD1	ILE	A	44	-7.180	-4.482	-0.378	1.00	0.00
ATOM 643	H	ILE	A	44	-8.105	-3.172	3.140	1.00	0.00
ATOM 644	HA	ILE	A	44	-5.261	-3.309	3.196	1.00	0.00
ATOM 645	HB	ILE	A	44	-6.991	-2.135	1.017	1.00	0.00
ATOM 646	1HG1	ILE	A	44	-6.035	-4.989	1.321	1.00	0.00
ATOM 647	2HG1	ILE	A	44	-7.671	-4.448	1.676	1.00	0.00
ATOM 648	1HG2	ILE	A	44	-4.303	-2.025	1.228	1.00	0.00

ATOM 649	2HG2	ILE	A	44	-5.169	-2.089	-0.307	1.00	0.00
ATOM 650	3HG2	ILE	A	44	-4.495	-3.564	0.389	1.00	0.00
ATOM 651	1HD1	ILE	A	44	-8.218	-4.219	-0.519	1.00	0.00
ATOM 652	2HD1	ILE	A	44	-7.033	-5.520	-0.638	1.00	0.00
ATOM 653	3HD1	ILE	A	44	-6.562	-3.862	-1.010	1.00	0.00
ATOM 654	N	GLU	A	45	-6.670	-0.329	3.124	1.00	0.00
ATOM 655	CA	GLU	A	45	-6.431	1.089	3.369	1.00	0.00
ATOM 656	C	GLU	A	45	-5.816	1.303	4.748	1.00	0.00
ATOM 657	O	GLU	A	45	-5.024	2.223	4.949	1.00	0.00
ATOM 658	CB	GLU	A	45	-7.739	1.876	3.248	1.00	0.00
ATOM 659	CG	GLU	A	45	-7.662	3.034	2.266	1.00	0.00
ATOM 660	CD	GLU	A	45	-8.982	3.769	2.129	1.00	0.00
ATOM 661	OE1	GLU	A	45	-10.029	3.096	2.033	1.00	0.00
ATOM 662	OE2	GLU	A	45	-8.967	5.018	2.117	1.00	0.00
ATOM 663	H	GLU	A	45	-7.583	-0.636	2.942	1.00	0.00
ATOM 664	HA	GLU	A	45	-5.738	1.442	2.620	1.00	0.00
ATOM 665	1HB	GLU	A	45	-8.520	1.206	2.920	1.00	0.00
ATOM 666	2HB	GLU	A	45	-8.001	2.271	4.218	1.00	0.00
ATOM 667	1HG	GLU	A	45	-6.914	3.732	2.610	1.00	0.00
ATOM 668	2HG	GLU	A	45	-7.378	2.650	1.298	1.00	0.00
ATOM 669	N	ASN	A	46	-6.184	0.444	5.693	1.00	0.00
ATOM 670	CA	ASN	A	46	-5.667	0.536	7.053	1.00	0.00
ATOM 671	C	ASN	A	46	-4.236	0.015	7.124	1.00	0.00
ATOM 672	O	ASN	A	46	-3.387	0.591	7.803	1.00	0.00
ATOM 673	CB	ASN	A	46	-6.561	-0.254	8.013	1.00	0.00
ATOM 674	CG	ASN	A	46	-6.108	-0.136	9.455	1.00	0.00
ATOM 675	OD1	ASN	A	46	-5.480	0.850	9.842	1.00	0.00

ATOM 676	ND2	ASN	A	46	-6.424	-1.145	10.259	1.00	0.00
ATOM 677	H	ASN	A	46	-6.818	-0.270	5.469	1.00	0.00
ATOM 678	HA	ASN	A	46	-5.675	1.576	7.341	1.00	0.00
ATOM 679	1HB	ASN	A	46	-7.572	0.118	7.942	1.00	0.00
ATOM 680	2HB	ASN	A	46	-6.545	-1.297	7.733	1.00	0.00
ATOM 681	1HD2	ASN	A	46	-6.925	-1.897	9.882	1.00	0.00
ATOM 682	2HD2	ASN	A	46	-6.144	-1.094	11.197	1.00	0.00
ATOM 683	N	ALA	A	47	-3.975	-1.079	6.416	1.00	0.00
ATOM 684	CA	ALA	A	47	-2.646	-1.678	6.397	1.00	0.00
ATOM 685	C	ALA	A	47	-1.653	-0.777	5.673	1.00	0.00
ATOM 686	O	ALA	A	47	-0.500	-0.648	6.085	1.00	0.00
ATOM 687	CB	ALA	A	47	-2.695	-3.049	5.737	1.00	0.00
ATOM 688	H	ALA	A	47	-4.694	-1.494	5.893	1.00	0.00
ATOM 689	HA	ALA	A	47	-2.322	-1.807	7.419	1.00	0.00
ATOM 690	1HB	ALA	A	47	-1.766	-3.231	5.216	1.00	0.00
ATOM 691	2HB	ALA	A	47	-3.515	-3.083	5.036	1.00	0.00
ATOM 692	3HB	ALA	A	47	-2.837	-3.807	6.494	1.00	0.00
ATOM 693	N	LEU	A	48	-2.108	-0.154	4.591	1.00	0.00
ATOM 694	CA	LEU	A	48	-1.261	0.737	3.808	1.00	0.00
ATOM 695	C	LEU	A	48	-0.994	2.035	4.564	1.00	0.00
ATOM 696	O	LEU	A	48	0.069	2.640	4.423	1.00	0.00
ATOM 697	CB	LEU	A	48	-1.915	1.044	2.459	1.00	0.00
ATOM 698	CG	LEU	A	48	-2.122	-0.167	1.549	1.00	0.00
ATOM 699	CD1	LEU	A	48	-2.962	0.210	0.339	1.00	0.00
ATOM 700	CD2	LEU	A	48	-0.781	-0.738	1.113	1.00	0.00
ATOM 701	H	LEU	A	48	-3.037	-0.297	4.313	1.00	0.00
ATOM 702	HA	LEU	A	48	-0.321	0.235	3.636	1.00	0.00

ATOM 703	1HB	LEU	A	48	-2.879	1.497	2.646	1.00	0.00
ATOM 704	2HB	LEU	A	48	-1.297	1.758	1.936	1.00	0.00
ATOM 705	HG	LEU	A	48	-2.651	-0.935	2.097	1.00	0.00
ATOM 706	1HD1	LEU	A	48	-3.146	-0.669	-0.260	1.00	0.00
ATOM 707	2HD1	LEU	A	48	-2.433	0.944	-0.251	1.00	0.00
ATOM 708	3HD1	LEU	A	48	-3.903	0.625	0.670	1.00	0.00
ATOM 709	1HD2	LEU	A	48	-0.945	-1.567	0.440	1.00	0.00
ATOM 710	2HD2	LEU	A	48	-0.236	-1.081	1.979	1.00	0.00
ATOM 711	3HD2	LEU	A	48	-0.211	0.028	0.608	1.00	0.00
ATOM 712	N	ASN	A	49	-1.965	2.457	5.367	1.00	0.00
ATOM 713	CA	ASN	A	49	-1.835	3.681	6.147	1.00	0.00
ATOM 714	C	ASN	A	49	-0.651	3.591	7.105	1.00	0.00
ATOM 715	O	ASN	A	49	0.268	4.409	7.052	1.00	0.00
ATOM 716	CB	ASN	A	49	-3.122	3.953	6.929	1.00	0.00
ATOM 717	CG	ASN	A	49	-3.589	5.389	6.794	1.00	0.00
ATOM 718	OD1	ASN	A	49	-2.905	6.319	7.223	1.00	0.00
ATOM 719	ND2	ASN	A	49	-4.759	5.576	6.197	1.00	0.00
ATOM 720	H	ASN	A	49	-2.789	1.931	5.437	1.00	0.00
ATOM 721	HA	ASN	A	49	-1.665	4.496	5.459	1.00	0.00
ATOM 722	1HB	ASN	A	49	-3.903	3.304	6.560	1.00	0.00
ATOM 723	2HB	ASN	A	49	-2.953	3.745	7.975	1.00	0.00
ATOM 724	1HD2	ASN	A	49	-5.249	4.789	5.880	1.00	0.00
ATOM 725	2HD2	ASN	A	49	-5.085	6.495	6.095	1.00	0.00
ATOM 726	N	GLN	A	50	-0.680	2.591	7.979	1.00	0.00
ATOM 727	CA	GLN	A	50	0.392	2.392	8.949	1.00	0.00
ATOM 728	C	GLN	A	50	1.722	2.152	8.243	1.00	0.00
ATOM 729	O	GLN	A	50	2.782	2.520	8.753	1.00	0.00

ATOM 730	CB	GLN A	50	0.066	1.210	9.864	1.00	0.00
ATOM 731	CG	GLN A	50	-0.171	-0.092	9.117	1.00	0.00
ATOM 732	CD	GLN A	50	-0.960	-1.097	9.933	1.00	0.00
ATOM 733	OE1	GLN A	50	-2.170	-1.239	9.760	1.00	0.00
ATOM 734	NE2	GLN A	50	-0.276	-1.800	10.828	1.00	0.00
ATOM 735	H	GLN A	50	-1.439	1.971	7.972	1.00	0.00
ATOM 736	HA	GLN A	50	0.469	3.288	9.545	1.00	0.00
ATOM 737	1HB	GLN A	50	0.887	1.064	10.549	1.00	0.00
ATOM 738	2HB	GLN A	50	-0.825	1.443	10.429	1.00	0.00
ATOM 739	1HG	GLN A	50	-0.717	0.121	8.210	1.00	0.00
ATOM 740	2HG	GLN A	50	0.787	-0.526	8.866	1.00	0.00
ATOM 741	1HE2	GLN A	50	0.686	-1.634	10.910	1.00	0.00
ATOM 742	2HE2	GLN A	50	-0.762	-2.457	11.369	1.00	0.00
ATOM 743	N	LEU A	51	1.660	1.535	7.068	1.00	0.00
ATOM 744	CA	LEU A	51	2.861	1.246	6.292	1.00	0.00
ATOM 745	C	LEU A	51	3.593	2.533	5.926	1.00	0.00
ATOM 746	O	LEU A	51	4.822	2.569	5.882	1.00	0.00
ATOM 747	CB	LEU A	51	2.498	0.472	5.022	1.00	0.00
ATOM 748	CG	LEU A	51	3.641	-0.337	4.409	1.00	0.00
ATOM 749	CD1	LEU A	51	3.102	-1.566	3.693	1.00	0.00
ATOM 750	CD2	LEU A	51	4.450	0.527	3.452	1.00	0.00
ATOM 751	H	LEU A	51	0.787	1.267	6.715	1.00	0.00
ATOM 752	HA	LEU A	51	3.512	0.637	6.900	1.00	0.00
ATOM 753	1HB	LEU A	51	1.690	-0.206	5.259	1.00	0.00
ATOM 754	2HB	LEU A	51	2.148	1.177	4.284	1.00	0.00
ATOM 755	HG	LEU A	51	4.300	-0.672	5.197	1.00	0.00
ATOM 756	1HD1	LEU A	51	3.911	-2.074	3.190	1.00	0.00

ATOM 757	2HD1	LEU	A	51	2.360	-1.264	2.968	1.00	0.00
ATOM 758	3HD1	LEU	A	51	2.651	-2.232	4.413	1.00	0.00
ATOM 759	1HD2	LEU	A	51	5.359	0.011	3.181	1.00	0.00
ATOM 760	2HD2	LEU	A	51	4.695	1.462	3.932	1.00	0.00
ATOM 761	3HD2	LEU	A	51	3.867	0.721	2.563	1.00	0.00
ATOM 762	N	PHE	A	52	2.829	3.588	5.664	1.00	0.00
ATOM 763	CA	PHE	A	52	3.405	4.878	5.303	1.00	0.00
ATOM 764	C	PHE	A	52	4.045	5.547	6.516	1.00	0.00
ATOM 765	O	PHE	A	52	5.084	6.198	6.402	1.00	0.00
ATOM 766	CB	PHE	A	52	2.331	5.791	4.710	1.00	0.00
ATOM 767	CG	PHE	A	52	1.497	5.128	3.652	1.00	0.00
ATOM 768	CD1	PHE	A	52	2.088	4.349	2.670	1.00	0.00
ATOM 769	CD2	PHE	A	52	0.119	5.283	3.638	1.00	0.00
ATOM 770	CE1	PHE	A	52	1.322	3.737	1.695	1.00	0.00
ATOM 771	CE2	PHE	A	52	-0.652	4.675	2.667	1.00	0.00
ATOM 772	CZ	PHE	A	52	-0.049	3.901	1.694	1.00	0.00
ATOM 773	H	PHE	A	52	1.855	3.498	5.717	1.00	0.00
ATOM 774	HA	PHE	A	52	4.168	4.704	4.559	1.00	0.00
ATOM 775	1HB	PHE	A	52	1.670	6.116	5.498	1.00	0.00
ATOM 776	2HB	PHE	A	52	2.806	6.654	4.267	1.00	0.00
ATOM 777	HD1	PHE	A	52	3.161	4.220	2.671	1.00	0.00
ATOM 778	HD2	PHE	A	52	-0.353	5.889	4.398	1.00	0.00
ATOM 779	HE1	PHE	A	52	1.796	3.133	0.936	1.00	0.00
ATOM 780	HE2	PHE	A	52	-1.724	4.804	2.667	1.00	0.00
ATOM 781	HZ	PHE	A	52	-0.650	3.424	0.933	1.00	0.00
ATOM 782	N	ARG	A	53	3.418	5.380	7.675	1.00	0.00
ATOM 783	CA	ARG	A	53	3.926	5.966	8.910	1.00	0.00



ATOM 784	C	ARG A	53	5.183	5.241	9.380	1.00	0.00
ATOM 785	O	ARG A	53	6.045	5.831	10.031	1.00	0.00
ATOM 786	CB	ARG A	53	2.856	5.915	10.002	1.00	0.00
ATOM 787	CG	ARG A	53	1.675	6.835	9.740	1.00	0.00
ATOM 788	CD	ARG A	53	1.852	8.182	10.425	1.00	0.00
ATOM 789	NE	ARG A	53	0.728	8.501	11.304	1.00	0.00
ATOM 790	CZ	ARG A	53	0.584	8.009	12.532	1.00	0.00
ATOM 791	NH1	ARG A	53	1.487	7.175	13.032	1.00	0.00
ATOM 792	NH2	ARG A	53	-0.468	8.353	13.263	1.00	0.00
ATOM 793	H	ARG A	53	2.594	4.850	7.702	1.00	0.00
ATOM 794	HA	ARG A	53	4.174	6.998	8.709	1.00	0.00
ATOM 795	1HB	ARG A	53	2.487	4.904	10.082	1.00	0.00
ATOM 796	2HB	ARG A	53	3.305	6.199	10.942	1.00	0.00
ATOM 797	1HG	ARG A	53	1.584	6.994	8.677	1.00	0.00
ATOM 798	2HG	ARG A	53	0.777	6.366	10.115	1.00	0.00
ATOM 799	1HD	ARG A	53	2.758	8.159	11.012	1.00	0.00
ATOM 800	2HD	ARG A	53	1.933	8.947	9.669	1.00	0.00
ATOM 801	HE	ARG A	53	0.045	9.113	10.960	1.00	0.00
ATOM 802	1HH1	ARG A	53	2.282	6.911	12.485	1.00	0.00
ATOM 803	2HH1	ARG A	53	1.373	6.810	13.956	1.00	0.00
ATOM 804	1HH2	ARG A	53	-1.151	8.981	12.893	1.00	0.00
ATOM 805	2HH2	ARG A	53	-0.576	7.984	14.187	1.00	0.00
ATOM 806	N	ASN A	54	5.281	3.957	9.047	1.00	0.00
ATOM 807	CA	ASN A	54	6.434	3.153	9.435	1.00	0.00
ATOM 808	C	ASN A	54	7.504	3.165	8.348	1.00	0.00
ATOM 809	O	ASN A	54	8.686	2.962	8.625	1.00	0.00
ATOM 810	CB	ASN A	54	6.002	1.714	9.726	1.00	0.00

ATOM 811	CG	ASN A	54	5.256	1.589	11.039	1.00	0.00
ATOM 812	OD1	ASN A	54	5.781	1.929	12.100	1.00	0.00
ATOM 813	ND2	ASN A	54	4.024	1.098	10.976	1.00	0.00
ATOM 814	H	ASN A	54	4.562	3.542	8.527	1.00	0.00
ATOM 815	HA	ASN A	54	6.848	3.583	10.335	1.00	0.00
ATOM 816	1HB	ASN A	54	5.355	1.372	8.932	1.00	0.00
ATOM 817	2HB	ASN A	54	6.878	1.083	9.768	1.00	0.00
ATOM 818	1HD2	ASN A	54	3.670	0.848	10.097	1.00	0.00
ATOM 819	2HD2	ASN A	54	3.519	1.006	11.811	1.00	0.00
ATOM 820	N	SER A	55	7.083	3.400	7.108	1.00	0.00
ATOM 821	CA	SER A	55	8.007	3.435	5.979	1.00	0.00
ATOM 822	C	SER A	55	9.118	4.455	6.209	1.00	0.00
ATOM 823	O	SER A	55	9.066	5.244	7.152	1.00	0.00
ATOM 824	CB	SER A	55	7.255	3.767	4.689	1.00	0.00
ATOM 825	OG	SER A	55	6.576	5.006	4.798	1.00	0.00
ATOM 826	H	SER A	55	6.129	3.553	6.947	1.00	0.00
ATOM 827	HA	SER A	55	8.449	2.455	5.883	1.00	0.00
ATOM 828	1HB	SER A	55	7.957	3.828	3.870	1.00	0.00
ATOM 829	2HB	SER A	55	6.532	2.991	4.486	1.00	0.00
ATOM 830	HG	SER A	55	6.137	5.206	3.969	1.00	0.00
ATOM 831	N	SER A	56	10.124	4.431	5.340	1.00	0.00
ATOM 832	CA	SER A	56	11.248	5.352	5.445	1.00	0.00
ATOM 833	C	SER A	56	10.848	6.755	4.995	1.00	0.00
ATOM 834	O	SER A	56	11.393	7.749	5.472	1.00	0.00
ATOM 835	CB	SER A	56	12.425	4.852	4.605	1.00	0.00
ATOM 836	OG	SER A	56	13.142	3.837	5.286	1.00	0.00
ATOM 837	H	SER A	56	10.108	3.779	4.608	1.00	0.00

ATOM 838	HA	SER A	56	11.548	5.392	6.481	1.00	0.00
ATOM 839	1HB	SER A	56	12.054	4.448	3.674	1.00	0.00
ATOM 840	2HB	SER A	56	13.095	5.674	4.400	1.00	0.00
ATOM 841	HG	SER A	56	12.548	3.116	5.505	1.00	0.00
ATOM 842	N	ILE A	57	9.894	6.825	4.073	1.00	0.00
ATOM 843	CA	ILE A	57	9.419	8.104	3.559	1.00	0.00
ATOM 844	C	ILE A	57	8.195	8.584	4.332	1.00	0.00
ATOM 845	O	ILE A	57	7.205	9.021	3.743	1.00	0.00
ATOM 846	CB	ILE A	57	9.069	8.011	2.062	1.00	0.00
ATOM 847	CG1	ILE A	57	8.125	6.834	1.810	1.00	0.00
ATOM 848	CG2	ILE A	57	10.334	7.870	1.229	1.00	0.00
ATOM 849	CD1	ILE A	57	7.457	6.874	0.454	1.00	0.00
ATOM 850	H	ILE A	57	9.498	5.996	3.731	1.00	0.00
ATOM 851	HA	ILE A	57	10.214	8.826	3.678	1.00	0.00
ATOM 852	HB	ILE A	57	8.576	8.927	1.771	1.00	0.00
ATOM 853	1HG1	ILE A	57	8.683	5.912	1.876	1.00	0.00
ATOM 854	2HG1	ILE A	57	7.350	6.835	2.563	1.00	0.00
ATOM 855	1HG2	ILE A	57	10.079	7.889	0.180	1.00	0.00
ATOM 856	2HG2	ILE A	57	10.818	6.933	1.465	1.00	0.00
ATOM 857	3HG2	ILE A	57	11.004	8.687	1.451	1.00	0.00
ATOM 858	1HD1	ILE A	57	6.625	6.186	0.441	1.00	0.00
ATOM 859	2HD1	ILE A	57	8.169	6.593	-0.308	1.00	0.00
ATOM 860	3HD1	ILE A	57	7.099	7.874	0.258	1.00	0.00
ATOM 861	N	LYS A	58	8.268	8.501	5.657	1.00	0.00
ATOM 862	CA	LYS A	58	7.167	8.925	6.514	1.00	0.00
ATOM 863	C	LYS A	58	7.297	10.403	6.875	1.00	0.00
ATOM 864	O	LYS A	58	7.236	10.775	8.047	1.00	0.00

ATOM 865	CB	LYS A	58	7.125	8.076	7.786	1.00	0.00
ATOM 866	CG	LYS A	58	8.356	8.232	8.666	1.00	0.00
ATOM 867	CD	LYS A	58	8.439	7.131	9.709	1.00	0.00
ATOM 868	CE	LYS A	58	9.797	7.109	10.390	1.00	0.00
ATOM 869	NZ	LYS A	58	10.806	6.354	9.595	1.00	0.00
ATOM 870	H	LYS A	58	9.082	8.144	6.068	1.00	0.00
ATOM 871	HA	LYS A	58	6.247	8.782	5.966	1.00	0.00
ATOM 872	1HB	LYS A	58	6.258	8.357	8.365	1.00	0.00
ATOM 873	2HB	LYS A	58	7.039	7.036	7.507	1.00	0.00
ATOM 874	1HG	LYS A	58	9.238	8.194	8.045	1.00	0.00
ATOM 875	2HG	LYS A	58	8.308	9.187	9.168	1.00	0.00
ATOM 876	1HD	LYS A	58	7.677	7.297	10.456	1.00	0.00
ATOM 877	2HD	LYS A	58	8.272	6.179	9.227	1.00	0.00
ATOM 878	1HE	LYS A	58	10.140	8.125	10.515	1.00	0.00
ATOM 879	2HE	LYS A	58	9.693	6.643	11.359	1.00	0.00
ATOM 880	1HZ	LYS A	58	10.677	6.545	8.581	1.00	0.00
ATOM 881	2HZ	LYS A	58	10.699	5.333	9.759	1.00	0.00
ATOM 882	3HZ	LYS A	58	11.766	6.639	9.873	1.00	0.00
ATOM 883	N	SER A	59	7.476	11.241	5.860	1.00	0.00
ATOM 884	CA	SER A	59	7.616	12.677	6.071	1.00	0.00
ATOM 885	C	SER A	59	6.761	13.461	5.081	1.00	0.00
ATOM 886	O	SER A	59	6.069	14.406	5.456	1.00	0.00
ATOM 887	CB	SER A	59	9.082	13.093	5.938	1.00	0.00
ATOM 888	OG	SER A	59	9.784	12.220	5.070	1.00	0.00
ATOM 889	H	SER A	59	7.517	10.886	4.947	1.00	0.00
ATOM 890	HA	SER A	59	7.279	12.898	7.072	1.00	0.00
ATOM 891	1HB	SER A	59	9.136	14.094	5.538	1.00	0.00

ATOM 892	2HB	SER A	59	9.552	13.068	6.910	1.00	0.00
ATOM 893	HG	SER A	59	10.066	11.442	5.557	1.00	0.00
ATOM 894	N	TYR A	60	6.817	13.064	3.813	1.00	0.00
ATOM 895	CA	TYR A	60	6.049	13.734	2.769	1.00	0.00
ATOM 896	C	TYR A	60	4.934	12.835	2.242	1.00	0.00
ATOM 897	O	TYR A	60	4.471	13.007	1.114	1.00	0.00
ATOM 898	CB	TYR A	60	6.968	14.148	1.619	1.00	0.00
ATOM 899	CG	TYR A	60	7.926	15.261	1.977	1.00	0.00
ATOM 900	CD1	TYR A	60	9.297	15.103	1.815	1.00	0.00
ATOM 901	CD2	TYR A	60	7.460	16.472	2.477	1.00	0.00
ATOM 902	CE1	TYR A	60	10.176	16.118	2.141	1.00	0.00
ATOM 903	CE2	TYR A	60	8.333	17.492	2.804	1.00	0.00
ATOM 904	CZ	TYR A	60	9.689	17.310	2.635	1.00	0.00
ATOM 905	OH	TYR A	60	10.562	18.322	2.960	1.00	0.00
ATOM 906	H	TYR A	60	7.389	12.305	3.574	1.00	0.00
ATOM 907	HA	TYR A	60	5.608	14.620	3.201	1.00	0.00
ATOM 908	1HB	TYR A	60	7.552	13.295	1.311	1.00	0.00
ATOM 909	2HB	TYR A	60	6.363	14.483	0.790	1.00	0.00
ATOM 910	HD1	TYR A	60	9.675	14.168	1.429	1.00	0.00
ATOM 911	HD2	TYR A	60	6.397	16.610	2.609	1.00	0.00
ATOM 912	HE1	TYR A	60	11.238	15.975	2.008	1.00	0.00
ATOM 913	HE2	TYR A	60	7.951	18.425	3.190	1.00	0.00
ATOM 914	HH	TYR A	60	10.316	18.697	3.809	1.00	0.00
ATOM 915	N	PHE A	61	4.504	11.880	3.059	1.00	0.00
ATOM 916	CA	PHE A	61	3.441	10.962	2.664	1.00	0.00
ATOM 917	C	PHE A	61	2.136	11.304	3.374	1.00	0.00
ATOM 918	O	PHE A	61	2.081	11.360	4.602	1.00	0.00

ATOM 919	CB	PHE A	61	3.841	9.518	2.974	1.00	0.00
ATOM 920	CG	PHE A	61	3.045	8.501	2.207	1.00	0.00
ATOM 921	CD1	PHE A	61	3.661	7.674	1.280	1.00	0.00
ATOM 922	CD2	PHE A	61	1.681	8.371	2.413	1.00	0.00
ATOM 923	CE1	PHE A	61	2.930	6.738	0.573	1.00	0.00
ATOM 924	CE2	PHE A	61	0.945	7.437	1.709	1.00	0.00
ATOM 925	CZ	PHE A	61	1.571	6.619	0.788	1.00	0.00
ATOM 926	H	PHE A	61	4.908	11.791	3.948	1.00	0.00
ATOM 927	HA	PHE A	61	3.296	11.065	1.600	1.00	0.00
ATOM 928	1HB	PHE A	61	4.883	9.379	2.726	1.00	0.00
ATOM 929	2HB	PHE A	61	3.698	9.330	4.027	1.00	0.00
ATOM 930	HD1	PHE A	61	4.723	7.766	1.113	1.00	0.00
ATOM 931	HD2	PHE A	61	1.191	9.009	3.134	1.00	0.00
ATOM 932	HE1	PHE A	61	3.421	6.101	-0.147	1.00	0.00
ATOM 933	HE2	PHE A	61	-0.118	7.346	1.879	1.00	0.00
ATOM 934	HZ	PHE A	61	0.998	5.888	0.237	1.00	0.00
ATOM 935	N	SER A	62	1.087	11.534	2.591	1.00	0.00
ATOM 936	CA	SER A	62	-0.220	11.871	3.144	1.00	0.00
ATOM 937	C	SER A	62	-1.010	10.611	3.478	1.00	0.00
ATOM 938	O	SER A	62	-1.164	10.254	4.647	1.00	0.00
ATOM 939	CB	SER A	62	-1.007	12.733	2.156	1.00	0.00
ATOM 940	OG	SER A	62	-0.645	14.100	2.270	1.00	0.00
ATOM 941	H	SER A	62	1.194	11.475	1.620	1.00	0.00
ATOM 942	HA	SER A	62	-0.061	12.433	4.051	1.00	0.00
ATOM 943	1HB	SER A	62	-0.801	12.403	1.149	1.00	0.00
ATOM 944	2HB	SER A	62	-2.063	12.635	2.358	1.00	0.00
ATOM 945	HG	SER A	62	-0.595	14.341	3.197	1.00	0.00

ATOM 946	N	ASP A	63	-1.511	9.941	2.446	1.00	0.00
ATOM 947	CA	ASP A	63	-2.286	8.719	2.631	1.00	0.00
ATOM 948	C	ASP A	63	-2.526	8.017	1.299	1.00	0.00
ATOM 949	O	ASP A	63	-2.029	8.447	0.258	1.00	0.00
ATOM 950	CB	ASP A	63	-3.623	9.038	3.303	1.00	0.00
ATOM 951	CG	ASP A	63	-3.563	8.892	4.811	1.00	0.00
ATOM 952	OD1	ASP A	63	-3.480	9.927	5.504	1.00	0.00
ATOM 953	OD2	ASP A	63	-3.599	7.743	5.299	1.00	0.00
ATOM 954	H	ASP A	63	-1.356	10.275	1.537	1.00	0.00
ATOM 955	HA	ASP A	63	-1.719	8.062	3.274	1.00	0.00
ATOM 956	1HB	ASP A	63	-3.904	10.054	3.070	1.00	0.00
ATOM 957	2HB	ASP A	63	-4.379	8.365	2.925	1.00	0.00
ATOM 958	N	CYS A	64	-3.294	6.932	1.340	1.00	0.00
ATOM 959	CA	CYS A	64	-3.602	6.168	0.138	1.00	0.00
ATOM 960	C	CYS A	64	-5.020	6.461	-0.342	1.00	0.00
ATOM 961	O	CYS A	64	-5.735	7.264	0.254	1.00	0.00
ATOM 962	CB	CYS A	64	-3.439	4.671	0.403	1.00	0.00
ATOM 963	SG	CYS A	64	-4.358	4.072	1.841	1.00	0.00
ATOM 964	H	CYS A	64	-3.662	6.639	2.200	1.00	0.00
ATOM 965	HA	CYS A	64	-2.906	6.466	-0.631	1.00	0.00
ATOM 966	1HB	CYS A	64	-3.786	4.120	-0.459	1.00	0.00
ATOM 967	2HB	CYS A	64	-2.394	4.454	0.567	1.00	0.00
ATOM 968	HG	CYS A	64	-4.087	4.591	2.603	1.00	0.00
ATOM 969	N	GLN A	65	-5.420	5.802	-1.426	1.00	0.00
ATOM 970	CA	GLN A	65	-6.753	5.991	-1.986	1.00	0.00
ATOM 971	C	GLN A	65	-7.189	4.762	-2.776	1.00	0.00
ATOM 972	O	GLN A	65	-6.977	4.682	-3.987	1.00	0.00

ATOM 973	CB	GLN A	65	-6.780	7.227	-2.886	1.00	0.00
ATOM 974	CG	GLN A	65	-8.133	7.919	-2.928	1.00	0.00
ATOM 975	CD	GLN A	65	-8.034	9.411	-2.682	1.00	0.00
ATOM 976	OE1	GLN A	65	-8.468	9.911	-1.645	1.00	0.00
ATOM 977	NE2	GLN A	65	-7.460	10.132	-3.638	1.00	0.00
ATOM 978	H	GLN A	65	-4.804	5.173	-1.858	1.00	0.00
ATOM 979	HA	GLN A	65	-7.439	6.138	-1.165	1.00	0.00
ATOM 980	1HB	GLN A	65	-6.048	7.935	-2.527	1.00	0.00
ATOM 981	2HB	GLN A	65	-6.518	6.932	-3.891	1.00	0.00
ATOM 982	1HG	GLN A	65	-8.575	7.759	-3.900	1.00	0.00
ATOM 983	2HG	GLN A	65	-8.768	7.484	-2.170	1.00	0.00
ATOM 984	1HE2	GLN A	65	-7.137	9.666	-4.438	1.00	0.00
ATOM 985	2HE2	GLN A	65	-7.383	11.100	-3.506	1.00	0.00
ATOM 986	N	VAL A	66	-7.802	3.806	-2.085	1.00	0.00
ATOM 987	CA	VAL A	66	-8.270	2.582	-2.723	1.00	0.00
ATOM 988	C	VAL A	66	-9.372	2.880	-3.736	1.00	0.00
ATOM 989	O	VAL A	66	-10.514	3.150	-3.366	1.00	0.00
ATOM 990	CB	VAL A	66	-8.791	1.569	-1.683	1.00	0.00
ATOM 991	CG1	VAL A	66	-9.947	2.160	-0.891	1.00	0.00
ATOM 992	CG2	VAL A	66	-9.205	0.270	-2.358	1.00	0.00
ATOM 993	H	VAL A	66	-7.943	3.928	-1.123	1.00	0.00
ATOM 994	HA	VAL A	66	-7.432	2.136	-3.240	1.00	0.00
ATOM 995	HB	VAL A	66	-7.988	1.350	-0.993	1.00	0.00
ATOM 996	1HG1	VAL A	66	-10.881	1.778	-1.277	1.00	0.00
ATOM 997	2HG1	VAL A	66	-9.934	3.236	-0.979	1.00	0.00
ATOM 998	3HG1	VAL A	66	-9.849	1.884	0.150	1.00	0.00
ATOM 999	1HG2	VAL A	66	-8.859	-0.568	-1.770	1.00	0.00



ATOM 1000	2HG2	VAL	A	66	-8.768	0.221	-3.345	1.00	0.00
ATOM 1001	3HG2	VAL	A	66	-10.281	0.232	-2.439	1.00	0.00
ATOM 1002	N	LEU	A	67	-9.019	2.831	-5.017	1.00	0.00
ATOM 1003	CA	LEU	A	67	-9.976	3.096	-6.085	1.00	0.00
ATOM 1004	C	LEU	A	67	-11.042	2.007	-6.143	1.00	0.00
ATOM 1005	O	LEU	A	67	-12.224	2.271	-5.922	1.00	0.00
ATOM 1006	CB	LEU	A	67	-9.255	3.192	-7.432	1.00	0.00
ATOM 1007	CG	LEU	A	67	-8.039	4.118	-7.451	1.00	0.00
ATOM 1008	CD1	LEU	A	67	-7.438	4.181	-8.847	1.00	0.00
ATOM 1009	CD2	LEU	A	67	-8.423	5.510	-6.972	1.00	0.00
ATOM 1010	H	LEU	A	67	-8.092	2.611	-5.249	1.00	0.00
ATOM 1011	HA	LEU	A	67	-10.454	4.040	-5.874	1.00	0.00
ATOM 1012	1HB	LEU	A	67	-8.932	2.200	-7.714	1.00	0.00
ATOM 1013	2HB	LEU	A	67	-9.961	3.545	-8.169	1.00	0.00
ATOM 1014	HG	LEU	A	67	-7.286	3.729	-6.781	1.00	0.00
ATOM 1015	1HD1	LEU	A	67	-6.368	4.301	-8.773	1.00	0.00
ATOM 1016	2HD1	LEU	A	67	-7.859	5.019	-9.383	1.00	0.00
ATOM 1017	3HD1	LEU	A	67	-7.663	3.266	-9.376	1.00	0.00
ATOM 1018	1HD2	LEU	A	67	-8.357	5.550	-5.894	1.00	0.00
ATOM 1019	2HD2	LEU	A	67	-9.435	5.729	-7.278	1.00	0.00
ATOM 1020	3HD2	LEU	A	67	-7.751	6.237	-7.401	1.00	0.00
ATOM 1021	N	ALA	A	68	-10.618	0.784	-6.443	1.00	0.00
ATOM 1022	CA	ALA	A	68	-11.539	-0.343	-6.530	1.00	0.00
ATOM 1023	C	ALA	A	68	-10.786	-1.669	-6.552	1.00	0.00
ATOM 1024	O	ALA	A	68	-9.570	-1.709	-6.365	1.00	0.00
ATOM 1025	CB	ALA	A	68	-12.416	-0.213	-7.766	1.00	0.00
ATOM 1026	H	ALA	A	68	-9.663	0.635	-6.609	1.00	0.00

ATOM 1027	HA	ALA	A	68	-12.178	-0.319	-5.660	1.00	0.00
ATOM 1028	1HB	ALA	A	68	-12.014	-0.824	-8.560	1.00	0.00
ATOM 1029	2HB	ALA	A	68	-12.440	0.819	-8.083	1.00	0.00
ATOM 1030	3HB	ALA	A	68	-13.418	-0.541	-7.532	1.00	0.00
ATOM 1031	N	PHE	A	69	-11.518	-2.755	-6.782	1.00	0.00
ATOM 1032	CA	PHE	A	69	-10.920	-4.086	-6.830	1.00	0.00
ATOM 1033	C	PHE	A	69	-11.072	-4.702	-8.217	1.00	0.00
ATOM 1034	O	PHE	A	69	-12.164	-4.709	-8.787	1.00	0.00
ATOM 1035	CB	PHE	A	69	-11.569	-4.995	-5.784	1.00	0.00
ATOM 1036	CG	PHE	A	69	-11.182	-4.660	-4.371	1.00	0.00
ATOM 1037	CD1	PHE	A	69	-11.957	-3.796	-3.614	1.00	0.00
ATOM 1038	CD2	PHE	A	69	-10.045	-5.209	-3.801	1.00	0.00
ATOM 1039	CE1	PHE	A	69	-11.606	-3.486	-2.314	1.00	0.00
ATOM 1040	CE2	PHE	A	69	-9.688	-4.903	-2.502	1.00	0.00
ATOM 1041	CZ	PHE	A	69	-10.470	-4.040	-1.757	1.00	0.00
ATOM 1042	H	PHE	A	69	-12.483	-2.660	-6.924	1.00	0.00
ATOM 1043	HA	PHE	A	69	-9.869	-3.986	-6.606	1.00	0.00
ATOM 1044	1HB	PHE	A	69	-12.642	-4.915	-5.862	1.00	0.00
ATOM 1045	2HB	PHE	A	69	-11.274	-6.017	-5.976	1.00	0.00
ATOM 1046	HD1	PHE	A	69	-12.846	-3.363	-4.049	1.00	0.00
ATOM 1047	HD2	PHE	A	69	-9.433	-5.882	-4.382	1.00	0.00
ATOM 1048	HE1	PHE	A	69	-12.218	-2.812	-1.735	1.00	0.00
ATOM 1049	HE2	PHE	A	69	-8.800	-5.337	-2.068	1.00	0.00
ATOM 1050	HZ	PHE	A	69	-10.193	-3.799	-0.742	1.00	0.00
ATOM 1051	N	ARG	A	70	-9.972	-5.216	-8.755	1.00	0.00
ATOM 1052	CA	ARG	A	70	-9.984	-5.834	-10.075	1.00	0.00
ATOM 1053	C	ARG	A	70	-9.832	-7.349	-9.968	1.00	0.00

ATOM	1054	O	ARG	A	70	-8.828	-7.847	-9.458	1.00	0.00
ATOM	1055	CB	ARG	A	70	-8.860	-5.258	-10.938	1.00	0.00
ATOM	1056	CG	ARG	A	70	-9.208	-5.181	-12.416	1.00	0.00
ATOM	1057	CD	ARG	A	70	-9.439	-3.746	-12.863	1.00	0.00
ATOM	1058	NE	ARG	A	70	-10.386	-3.664	-13.973	1.00	0.00
ATOM	1059	CZ	ARG	A	70	-10.068	-3.925	-15.239	1.00	0.00
ATOM	1060	NH1	ARG	A	70	-8.831	-4.285	-15.560	1.00	0.00
ATOM	1061	NH2	ARG	A	70	-10.991	-3.826	-16.186	1.00	0.00
ATOM	1062	H	ARG	A	70	-9.132	-5.179	-8.252	1.00	0.00
ATOM	1063	HA	ARG	A	70	-10.932	-5.611	-10.538	1.00	0.00
ATOM	1064	1HB	ARG	A	70	-8.630	-4.261	-10.590	1.00	0.00
ATOM	1065	2HB	ARG	A	70	-7.983	-5.878	-10.828	1.00	0.00
ATOM	1066	1HG	ARG	A	70	-8.393	-5.597	-12.988	1.00	0.00
ATOM	1067	2HG	ARG	A	70	-10.105	-5.754	-12.595	1.00	0.00
ATOM	1068	1HD	ARG	A	70	-9.828	-3.181	-12.028	1.00	0.00
ATOM	1069	2HD	ARG	A	70	-8.495	-3.322	-13.174	1.00	0.00
ATOM	1070	HE	ARG	A	70	-11.306	-3.400	-13.764	1.00	0.00
ATOM	1071	1HH1	ARG	A	70	-8.132	-4.360	-14.849	1.00	0.00
ATOM	1072	2HH1	ARG	A	70	-8.599	-4.480	-16.512	1.00	0.00
ATOM	1073	1HH2	ARG	A	70	-11.924	-3.556	-15.951	1.00	0.00
ATOM	1074	2HH2	ARG	A	70	-10.752	-4.023	-17.138	1.00	0.00
ATOM	1075	N	SER	A	71	-10.834	-8.075	-10.451	1.00	0.00
ATOM	1076	CA	SER	A	71	-10.812	-9.532	-10.410	1.00	0.00
ATOM	1077	C	SER	A	71	-9.836	-10.092	-11.440	1.00	0.00
ATOM	1078	O	SER	A	71	-9.897	-9.745	-12.620	1.00	0.00
ATOM	1079	CB	SER	A	71	-12.214	-10.092	-10.663	1.00	0.00
ATOM	1080	OG	SER	A	71	-12.198	-11.508	-10.705	1.00	0.00

ATOM 1081	H	SER A	71	-11.607	-7.620	-10.846	1.00	0.00
ATOM 1082	HA	SER A	71	-10.488	-9.831	-9.425	1.00	0.00
ATOM 1083	1HB	SER A	71	-12.874	-9.776	-9.869	1.00	0.00
ATOM 1084	2HB	SER A	71	-12.582	-9.719	-11.608	1.00	0.00
ATOM 1085	HG	SER A	71	-12.449	-11.857	-9.848	1.00	0.00
ATOM 1086	N	VAL A	72	-8.936	-10.958	-10.987	1.00	0.00
ATOM 1087	CA	VAL A	72	-7.947	-11.565	-11.869	1.00	0.00
ATOM 1088	C	VAL A	72	-8.573	-12.664	-12.723	1.00	0.00
ATOM 1089	O	VAL A	72	-9.691	-13.108	-12.458	1.00	0.00
ATOM 1090	CB	VAL A	72	-6.771	-12.159	-11.073	1.00	0.00
ATOM 1091	CG1	VAL A	72	-5.992	-11.059	-10.369	1.00	0.00
ATOM 1092	CG2	VAL A	72	-7.268	-13.192	-10.074	1.00	0.00
ATOM 1093	H	VAL A	72	-8.939	-11.196	-10.036	1.00	0.00
ATOM 1094	HA	VAL A	72	-7.562	-10.794	-12.519	1.00	0.00
ATOM 1095	HB	VAL A	72	-6.105	-12.652	-11.766	1.00	0.00
ATOM 1096	1HG1	VAL A	72	-5.165	-10.747	-10.992	1.00	0.00
ATOM 1097	2HG1	VAL A	72	-5.613	-11.430	-9.429	1.00	0.00
ATOM 1098	3HG1	VAL A	72	-6.643	-10.217	-10.188	1.00	0.00
ATOM 1099	1HG2	VAL A	72	-7.769	-12.693	-9.258	1.00	0.00
ATOM 1100	2HG2	VAL A	72	-6.430	-13.756	-9.691	1.00	0.00
ATOM 1101	3HG2	VAL A	72	-7.960	-13.863	-10.563	1.00	0.00
ATOM 1102	N	SER A	73	-7.845	-13.098	-13.746	1.00	0.00
ATOM 1103	CA	SER A	73	-8.327	-14.145	-14.638	1.00	0.00
ATOM 1104	C	SER A	73	-7.271	-15.228	-14.828	1.00	0.00
ATOM 1105	O	SER A	73	-6.579	-15.264	-15.846	1.00	0.00
ATOM 1106	CB	SER A	73	-8.714	-13.550	-15.994	1.00	0.00
ATOM 1107	OG	SER A	73	-9.304	-14.529	-16.832	1.00	0.00

ATOM	1108	H	SER	A	73	-6.960	-12.704	-13.904	1.00	0.00
ATOM	1109	HA	SER	A	73	-9.202	-14.587	-14.187	1.00	0.00
ATOM	1110	1HB	SER	A	73	-9.424	-12.749	-15.844	1.00	0.00
ATOM	1111	2HB	SER	A	73	-7.831	-13.162	-16.480	1.00	0.00
ATOM	1112	N	ASN	A	74	-7.151	-16.111	-13.842	1.00	0.00
ATOM	1113	CA	ASN	A	74	-6.178	-17.196	-13.899	1.00	0.00
ATOM	1114	C	ASN	A	74	-6.517	-18.284	-12.886	1.00	0.00
ATOM	1115	O	ASN	A	74	-6.732	-19.441	-13.251	1.00	0.00
ATOM	1116	CB	ASN	A	74	-4.769	-16.660	-13.637	1.00	0.00
ATOM	1117	CG	ASN	A	74	-3.701	-17.716	-13.839	1.00	0.00
ATOM	1118	OD1	ASN	A	74	-3.702	-18.433	-14.841	1.00	0.00
ATOM	1119	ND2	ASN	A	74	-2.782	-17.820	-12.887	1.00	0.00
ATOM	1120	H	ASN	A	74	-7.731	-16.030	-13.055	1.00	0.00
ATOM	1121	HA	ASN	A	74	-6.214	-17.620	-14.891	1.00	0.00
ATOM	1122	1HB	ASN	A	74	-4.570	-15.841	-14.313	1.00	0.00
ATOM	1123	2HB	ASN	A	74	-4.710	-16.303	-12.619	1.00	0.00
ATOM	1124	1HD2	ASN	A	74	-2.843	-17.215	-12.117	1.00	0.00
ATOM	1125	2HD2	ASN	A	74	-2.080	-18.494	-12.992	1.00	0.00
ATOM	1126	N	ASN	A	75	-6.564	-17.906	-11.613	1.00	0.00
ATOM	1127	CA	ASN	A	75	-6.876	-18.851	-10.545	1.00	0.00
ATOM	1128	C	ASN	A	75	-8.244	-18.556	-9.930	1.00	0.00
ATOM	1129	O	ASN	A	75	-8.825	-19.407	-9.257	1.00	0.00
ATOM	1130	CB	ASN	A	75	-5.798	-18.800	-9.461	1.00	0.00
ATOM	1131	CG	ASN	A	75	-5.965	-19.897	-8.427	1.00	0.00
ATOM	1132	OD1	ASN	A	75	-6.339	-21.023	-8.754	1.00	0.00
ATOM	1133	ND2	ASN	A	75	-5.690	-19.570	-7.170	1.00	0.00
ATOM	1134	H	ASN	A	75	-6.382	-16.971	-11.385	1.00	0.00

ATOM	1135	HA	ASN	A	75	-6.894	-19.841	-10.973	1.00	0.00
ATOM	1136	1HB	ASN	A	75	-4.828	-18.913	-9.922	1.00	0.00
ATOM	1137	2HB	ASN	A	75	-5.845	-17.845	-8.958	1.00	0.00
ATOM	1138	1HD2	ASN	A	75	-5.398	-18.653	-6.983	1.00	0.00
ATOM	1139	2HD2	ASN	A	75	-5.791	-20.259	-6.480	1.00	0.00
ATOM	1140	N	ASN	A	76	-8.752	-17.348	-10.163	1.00	0.00
ATOM	1141	CA	ASN	A	76	-10.049	-16.947	-9.628	1.00	0.00
ATOM	1142	C	ASN	A	76	-10.016	-16.901	-8.103	1.00	0.00
ATOM	1143	O	ASN	A	76	-11.024	-17.151	-7.442	1.00	0.00
ATOM	1144	CB	ASN	A	76	-11.143	-17.909	-10.103	1.00	0.00
ATOM	1145	CG	ASN	A	76	-11.883	-17.385	-11.318	1.00	0.00
ATOM	1146	OD1	ASN	A	76	-12.029	-18.085	-12.320	1.00	0.00
ATOM	1147	ND2	ASN	A	76	-12.354	-16.146	-11.235	1.00	0.00
ATOM	1148	H	ASN	A	76	-8.242	-16.710	-10.704	1.00	0.00
ATOM	1149	HA	ASN	A	76	-10.267	-15.957	-10.000	1.00	0.00
ATOM	1150	1HB	ASN	A	76	-10.694	-18.856	-10.359	1.00	0.00
ATOM	1151	2HB	ASN	A	76	-11.856	-18.056	-9.305	1.00	0.00
ATOM	1152	1HD2	ASN	A	76	-12.200	-15.647	-10.406	1.00	0.00
ATOM	1153	2HD2	ASN	A	76	-12.838	-15.782	-12.007	1.00	0.00
ATOM	1154	N	ASN	A	77	-8.850	-16.579	-7.553	1.00	0.00
ATOM	1155	CA	ASN	A	77	-8.683	-16.498	-6.107	1.00	0.00
ATOM	1156	C	ASN	A	77	-8.051	-15.167	-5.710	1.00	0.00
ATOM	1157	O	ASN	A	77	-8.508	-14.505	-4.779	1.00	0.00
ATOM	1158	CB	ASN	A	77	-7.819	-17.657	-5.606	1.00	0.00
ATOM	1159	CG	ASN	A	77	-7.979	-17.896	-4.117	1.00	0.00
ATOM	1160	OD1	ASN	A	77	-7.055	-17.664	-3.337	1.00	0.00
ATOM	1161	ND2	ASN	A	77	-9.155	-18.363	-3.717	1.00	0.00

ATOM	1162	H	ASN	A	77	-8.084	-16.390	-8.133	1.00	0.00
ATOM	1163	HA	ASN	A	77	-9.661	-16.568	-5.654	1.00	0.00
ATOM	1164	1HB	ASN	A	77	-8.099	-18.559	-6.129	1.00	0.00
ATOM	1165	2HB	ASN	A	77	-6.781	-17.437	-5.807	1.00	0.00
ATOM	1166	1HD2	ASN	A	77	-9.844	-18.524	-4.394	1.00	0.00
ATOM	1167	2HD2	ASN	A	77	-9.287	-18.527	-2.759	1.00	0.00
ATOM	1168	N	HIS	A	78	-6.997	-14.784	-6.423	1.00	0.00
ATOM	1169	CA	HIS	A	78	-6.303	-13.531	-6.147	1.00	0.00
ATOM	1170	C	HIS	A	78	-7.221	-12.338	-6.392	1.00	0.00
ATOM	1171	O	HIS	A	78	-8.330	-12.490	-6.904	1.00	0.00
ATOM	1172	CB	HIS	A	78	-5.051	-13.415	-7.019	1.00	0.00
ATOM	1173	CG	HIS	A	78	-4.131	-14.590	-6.903	1.00	0.00
ATOM	1174	ND1	HIS	A	78	-3.233	-14.942	-7.889	1.00	0.00
ATOM	1175	CD2	HIS	A	78	-3.972	-15.496	-5.910	1.00	0.00
ATOM	1176	CE1	HIS	A	78	-2.562	-16.014	-7.507	1.00	0.00
ATOM	1177	NE2	HIS	A	78	-2.991	-16.369	-6.310	1.00	0.00
ATOM	1178	H	HIS	A	78	-6.680	-15.354	-7.154	1.00	0.00
ATOM	1179	HA	HIS	A	78	-6.009	-13.537	-5.108	1.00	0.00
ATOM	1180	1HB	HIS	A	78	-5.348	-13.326	-8.052	1.00	0.00
ATOM	1181	2HB	HIS	A	78	-4.501	-12.531	-6.730	1.00	0.00
ATOM	1182	HD1	HIS	A	78	-3.107	-14.476	-8.742	1.00	0.00
ATOM	1183	HD2	HIS	A	78	-4.516	-15.527	-4.976	1.00	0.00
ATOM	1184	HE1	HIS	A	78	-1.792	-16.514	-8.077	1.00	0.00
ATOM	1185	HE2	HIS	A	78	-2.724	-17.183	-5.833	1.00	0.00
ATOM	1186	N	THR	A	79	-6.753	-11.150	-6.021	1.00	0.00
ATOM	1187	CA	THR	A	79	-7.535	-9.933	-6.201	1.00	0.00
ATOM	1188	C	THR	A	79	-6.630	-8.745	-6.512	1.00	0.00

ATOM	1189	O	THR	A	79	-5.664	-8.483	-5.796	1.00	0.00
ATOM	1190	CB	THR	A	79	-8.361	-9.644	-4.947	1.00	0.00
ATOM	1191	OG1	THR	A	79	-9.200	-10.742	-4.635	1.00	0.00
ATOM	1192	CG2	THR	A	79	-9.240	-8.418	-5.078	1.00	0.00
ATOM	1193	H	THR	A	79	-5.862	-11.092	-5.618	1.00	0.00
ATOM	1194	HA	THR	A	79	-8.204	-10.088	-7.034	1.00	0.00
ATOM	1195	HB	THR	A	79	-7.691	-9.484	-4.115	1.00	0.00
ATOM	1196	HG1	THR	A	79	-9.160	-10.919	-3.693	1.00	0.00
ATOM	1197	1HG2	THR	A	79	-9.200	-7.848	-4.161	1.00	0.00
ATOM	1198	2HG2	THR	A	79	-10.258	-8.724	-5.268	1.00	0.00
ATOM	1199	3HG2	THR	A	79	-8.888	-7.809	-5.897	1.00	0.00
ATOM	1200	N	GLY	A	80	-6.951	-8.028	-7.585	1.00	0.00
ATOM	1201	CA	GLY	A	80	-6.157	-6.876	-7.971	1.00	0.00
ATOM	1202	C	GLY	A	80	-6.577	-5.614	-7.244	1.00	0.00
ATOM	1203	O	GLY	A	80	-7.722	-5.177	-7.356	1.00	0.00
ATOM	1204	H	GLY	A	80	-7.733	-8.284	-8.117	1.00	0.00
ATOM	1205	1HA	GLY	A	80	-5.120	-7.077	-7.752	1.00	0.00
ATOM	1206	2HA	GLY	A	80	-6.266	-6.719	-9.034	1.00	0.00
ATOM	1207	N	VAL	A	81	-5.648	-5.028	-6.496	1.00	0.00
ATOM	1208	CA	VAL	A	81	-5.929	-3.808	-5.746	1.00	0.00
ATOM	1209	C	VAL	A	81	-5.522	-2.569	-6.537	1.00	0.00
ATOM	1210	O	VAL	A	81	-4.383	-2.453	-6.986	1.00	0.00
ATOM	1211	CB	VAL	A	81	-5.200	-3.802	-4.388	1.00	0.00
ATOM	1212	CG1	VAL	A	81	-5.560	-2.557	-3.588	1.00	0.00
ATOM	1213	CG2	VAL	A	81	-5.523	-5.065	-3.601	1.00	0.00
ATOM	1214	H	VAL	A	81	-4.752	-5.424	-6.445	1.00	0.00
ATOM	1215	HA	VAL	A	81	-6.993	-3.770	-5.560	1.00	0.00



ATOM 1216	HB	VAL	A	81	-4.136	-3.784	-4.575	1.00	0.00
ATOM 1217	1HG1	VAL	A	81	-4.931	-1.736	-3.894	1.00	0.00
ATOM 1218	2HG1	VAL	A	81	-5.412	-2.751	-2.535	1.00	0.00
ATOM 1219	3HG1	VAL	A	81	-6.596	-2.302	-3.765	1.00	0.00
ATOM 1220	1HG2	VAL	A	81	-4.606	-5.569	-3.336	1.00	0.00
ATOM 1221	2HG2	VAL	A	81	-6.132	-5.722	-4.206	1.00	0.00
ATOM 1222	3HG2	VAL	A	81	-6.062	-4.804	-2.702	1.00	0.00
ATOM 1223	N	ASP	A	82	-6.462	-1.642	-6.695	1.00	0.00
ATOM 1224	CA	ASP	A	82	-6.203	-0.406	-7.422	1.00	0.00
ATOM 1225	C	ASP	A	82	-6.269	0.791	-6.480	1.00	0.00
ATOM 1226	O	ASP	A	82	-7.304	1.445	-6.364	1.00	0.00
ATOM 1227	CB	ASP	A	82	-7.215	-0.235	-8.558	1.00	0.00
ATOM 1228	CG	ASP	A	82	-6.686	-0.745	-9.884	1.00	0.00
ATOM 1229	OD1	ASP	A	82	-6.600	0.057	-10.838	1.00	0.00
ATOM 1230	OD2	ASP	A	82	-6.356	-1.946	-9.969	1.00	0.00
ATOM 1231	H	ASP	A	82	-7.349	-1.792	-6.308	1.00	0.00
ATOM 1232	HA	ASP	A	82	-5.210	-0.467	-7.842	1.00	0.00
ATOM 1233	1HB	ASP	A	82	-8.113	-0.782	-8.316	1.00	0.00
ATOM 1234	2HB	ASP	A	82	-7.454	0.813	-8.665	1.00	0.00
ATOM 1235	N	SER	A	83	-5.159	1.064	-5.802	1.00	0.00
ATOM 1236	CA	SER	A	83	-5.092	2.175	-4.861	1.00	0.00
ATOM 1237	C	SER	A	83	-4.272	3.330	-5.430	1.00	0.00
ATOM 1238	O	SER	A	83	-3.803	3.272	-6.567	1.00	0.00
ATOM 1239	CB	SER	A	83	-4.487	1.706	-3.537	1.00	0.00
ATOM 1240	OG	SER	A	83	-3.282	0.991	-3.751	1.00	0.00
ATOM 1241	H	SER	A	83	-4.367	0.502	-5.935	1.00	0.00
ATOM 1242	HA	SER	A	83	-6.099	2.519	-4.684	1.00	0.00

ATOM	1243	1HB	SER	A	83	-4.277	2.561	-2.915	1.00	0.00
ATOM	1244	2HB	SER	A	83	-5.190	1.059	-3.034	1.00	0.00
ATOM	1245	HG	SER	A	83	-2.988	0.603	-2.924	1.00	0.00
ATOM	1246	N	LEU	A	84	-4.107	4.380	-4.630	1.00	0.00
ATOM	1247	CA	LEU	A	84	-3.348	5.554	-5.050	1.00	0.00
ATOM	1248	C	LEU	A	84	-2.414	6.023	-3.939	1.00	0.00
ATOM	1249	O	LEU	A	84	-2.860	6.384	-2.852	1.00	0.00
ATOM	1250	CB	LEU	A	84	-4.303	6.687	-5.439	1.00	0.00
ATOM	1251	CG	LEU	A	84	-3.706	7.763	-6.350	1.00	0.00
ATOM	1252	CD1	LEU	A	84	-2.514	8.430	-5.683	1.00	0.00
ATOM	1253	CD2	LEU	A	84	-3.306	7.166	-7.692	1.00	0.00
ATOM	1254	H	LEU	A	84	-4.509	4.367	-3.736	1.00	0.00
ATOM	1255	HA	LEU	A	84	-2.759	5.279	-5.911	1.00	0.00
ATOM	1256	1HB	LEU	A	84	-5.155	6.252	-5.941	1.00	0.00
ATOM	1257	2HB	LEU	A	84	-4.647	7.165	-4.534	1.00	0.00
ATOM	1258	HG	LEU	A	84	-4.452	8.523	-6.531	1.00	0.00
ATOM	1259	1HD1	LEU	A	84	-1.611	7.895	-5.940	1.00	0.00
ATOM	1260	2HD1	LEU	A	84	-2.647	8.415	-4.610	1.00	0.00
ATOM	1261	3HD1	LEU	A	84	-2.436	9.452	-6.021	1.00	0.00
ATOM	1262	1HD2	LEU	A	84	-2.229	7.133	-7.765	1.00	0.00
ATOM	1263	2HD2	LEU	A	84	-3.701	7.778	-8.489	1.00	0.00
ATOM	1264	3HD2	LEU	A	84	-3.704	6.165	-7.776	1.00	0.00
ATOM	1265	N	CYS	A	85	-1.114	6.018	-4.220	1.00	0.00
ATOM	1266	CA	CYS	A	85	-0.121	6.448	-3.241	1.00	0.00
ATOM	1267	C	CYS	A	85	0.053	7.963	-3.281	1.00	0.00
ATOM	1268	O	CYS	A	85	1.006	8.474	-3.869	1.00	0.00
ATOM	1269	CB	CYS	A	85	1.219	5.756	-3.500	1.00	0.00

ATOM	1270	SG	CYS	A	85	1.422	4.200	-2.604	1.00	0.00
ATOM	1271	H	CYS	A	85	-0.816	5.721	-5.105	1.00	0.00
ATOM	1272	HA	CYS	A	85	-0.477	6.164	-2.263	1.00	0.00
ATOM	1273	1HB	CYS	A	85	1.310	5.542	-4.554	1.00	0.00
ATOM	1274	2HB	CYS	A	85	2.024	6.414	-3.203	1.00	0.00
ATOM	1275	HG	CYS	A	85	1.086	4.326	-1.713	1.00	0.00
ATOM	1276	N	ASN	A	86	-0.879	8.677	-2.655	1.00	0.00
ATOM	1277	CA	ASN	A	86	-0.833	10.134	-2.621	1.00	0.00
ATOM	1278	C	ASN	A	86	0.279	10.626	-1.702	1.00	0.00
ATOM	1279	O	ASN	A	86	0.701	9.920	-0.786	1.00	0.00
ATOM	1280	CB	ASN	A	86	-2.178	10.697	-2.161	1.00	0.00
ATOM	1281	CG	ASN	A	86	-3.234	10.629	-3.245	1.00	0.00
ATOM	1282	OD1	ASN	A	86	-3.162	11.343	-4.245	1.00	0.00
ATOM	1283	ND2	ASN	A	86	-4.225	9.766	-3.053	1.00	0.00
ATOM	1284	H	ASN	A	86	-1.615	8.211	-2.206	1.00	0.00
ATOM	1285	HA	ASN	A	86	-0.633	10.481	-3.625	1.00	0.00
ATOM	1286	1HB	ASN	A	86	-2.526	10.130	-1.309	1.00	0.00
ATOM	1287	2HB	ASN	A	86	-2.049	11.730	-1.872	1.00	0.00
ATOM	1288	1HD2	ASN	A	86	-4.219	9.229	-2.233	1.00	0.00
ATOM	1289	2HD2	ASN	A	86	-4.923	9.700	-3.738	1.00	0.00
ATOM	1290	N	PHE	A	87	0.749	11.844	-1.953	1.00	0.00
ATOM	1291	CA	PHE	A	87	1.813	12.432	-1.150	1.00	0.00
ATOM	1292	C	PHE	A	87	1.504	13.890	-0.818	1.00	0.00
ATOM	1293	O	PHE	A	87	0.584	14.483	-1.379	1.00	0.00
ATOM	1294	CB	PHE	A	87	3.149	12.336	-1.887	1.00	0.00
ATOM	1295	CG	PHE	A	87	3.858	11.030	-1.671	1.00	0.00
ATOM	1296	CD1	PHE	A	87	3.339	9.852	-2.182	1.00	0.00

ATOM 1297	CD2	PHE A	87	5.042	10.982	-0.954	1.00	0.00
ATOM 1298	CE1	PHE A	87	3.988	8.648	-1.982	1.00	0.00
ATOM 1299	CE2	PHE A	87	5.696	9.782	-0.751	1.00	0.00
ATOM 1300	CZ	PHE A	87	5.169	8.614	-1.265	1.00	0.00
ATOM 1301	H	PHE A	87	0.372	12.358	-2.698	1.00	0.00
ATOM 1302	HA	PHE A	87	1.880	11.873	-0.229	1.00	0.00
ATOM 1303	1HB	PHE A	87	2.975	12.448	-2.947	1.00	0.00
ATOM 1304	2HB	PHE A	87	3.798	13.129	-1.547	1.00	0.00
ATOM 1305	HD1	PHE A	87	2.416	9.878	-2.744	1.00	0.00
ATOM 1306	HD2	PHE A	87	5.456	11.894	-0.552	1.00	0.00
ATOM 1307	HE1	PHE A	87	3.572	7.735	-2.387	1.00	0.00
ATOM 1308	HE2	PHE A	87	6.619	9.758	-0.190	1.00	0.00
ATOM 1309	HZ	PHE A	87	5.678	7.676	-1.105	1.00	0.00
ATOM 1310	N	SER A	88	2.280	14.458	0.100	1.00	0.00
ATOM 1311	CA	SER A	88	2.090	15.846	0.508	1.00	0.00
ATOM 1312	C	SER A	88	2.399	16.803	-0.641	1.00	0.00
ATOM 1313	O	SER A	88	3.163	16.471	-1.547	1.00	0.00
ATOM 1314	CB	SER A	88	2.979	16.170	1.711	1.00	0.00
ATOM 1315	OG	SER A	88	2.290	15.949	2.930	1.00	0.00
ATOM 1316	H	SER A	88	2.997	13.933	0.512	1.00	0.00
ATOM 1317	HA	SER A	88	1.055	15.968	0.794	1.00	0.00
ATOM 1318	1HB	SER A	88	3.855	15.540	1.688	1.00	0.00
ATOM 1319	2HB	SER A	88	3.279	17.206	1.663	1.00	0.00
ATOM 1320	HG	SER A	88	1.712	16.695	3.110	1.00	0.00
ATOM 1321	N	PRO A	89	1.806	18.008	-0.616	1.00	0.00
ATOM 1322	CA	PRO A	89	2.020	19.016	-1.659	1.00	0.00
ATOM 1323	C	PRO A	89	3.408	19.644	-1.583	1.00	0.00

ATOM 1324	O	PRO A	89	3.957	20.087	-2.593	1.00	0.00
ATOM 1325	CB	PRO A	89	0.945	20.063	-1.364	1.00	0.00
ATOM 1326	CG	PRO A	89	0.690	19.939	0.098	1.00	0.00
ATOM 1327	CD	PRO A	89	0.880	18.484	0.430	1.00	0.00
ATOM 1328	HA	PRO A	89	1.865	18.604	-2.645	1.00	0.00
ATOM 1329	1HB	PRO A	89	1.315	21.046	-1.620	1.00	0.00
ATOM 1330	2HB	PRO A	89	0.058	19.845	-1.939	1.00	0.00
ATOM 1331	1HG	PRO A	89	1.396	20.543	0.647	1.00	0.00
ATOM 1332	2HG	PRO A	89	-0.321	20.245	0.322	1.00	0.00
ATOM 1333	1HD	PRO A	89	1.317	18.375	1.412	1.00	0.00
ATOM 1334	2HD	PRO A	89	-0.063	17.958	0.376	1.00	0.00
ATOM 1335	N	LEU A	90	3.971	19.678	-0.380	1.00	0.00
ATOM 1336	CA	LEU A	90	5.295	20.253	-0.170	1.00	0.00
ATOM 1337	C	LEU A	90	6.348	19.511	-0.988	1.00	0.00
ATOM 1338	O	LEU A	90	7.191	20.128	-1.638	1.00	0.00
ATOM 1339	CB	LEU A	90	5.663	20.210	1.314	1.00	0.00
ATOM 1340	CG	LEU A	90	5.098	21.357	2.154	1.00	0.00
ATOM 1341	CD1	LEU A	90	3.670	21.053	2.579	1.00	0.00
ATOM 1342	CD2	LEU A	90	5.977	21.609	3.370	1.00	0.00
ATOM 1343	H	LEU A	90	3.484	19.310	0.386	1.00	0.00
ATOM 1344	HA	LEU A	90	5.265	21.282	-0.495	1.00	0.00
ATOM 1345	1HB	LEU A	90	5.303	19.278	1.726	1.00	0.00
ATOM 1346	2HB	LEU A	90	6.739	20.230	1.397	1.00	0.00
ATOM 1347	HG	LEU A	90	5.084	22.258	1.558	1.00	0.00
ATOM 1348	1HD1	LEU A	90	3.488	21.475	3.557	1.00	0.00
ATOM 1349	2HD1	LEU A	90	3.525	19.984	2.616	1.00	0.00
ATOM 1350	3HD1	LEU A	90	2.982	21.485	1.868	1.00	0.00

ATOM	1351	1HD2	LEU	A	90	5.507	22.343	4.007	1.00	0.00
ATOM	1352	2HD2	LEU	A	90	6.940	21.977	3.047	1.00	0.00
ATOM	1353	3HD2	LEU	A	90	6.108	20.688	3.917	1.00	0.00
ATOM	1354	N	ALA	A	91	6.291	18.183	-0.952	1.00	0.00
ATOM	1355	CA	ALA	A	91	7.240	17.358	-1.689	1.00	0.00
ATOM	1356	C	ALA	A	91	7.175	17.645	-3.185	1.00	0.00
ATOM	1357	O	ALA	A	91	6.403	18.494	-3.631	1.00	0.00
ATOM	1358	CB	ALA	A	91	6.976	15.883	-1.421	1.00	0.00
ATOM	1359	H	ALA	A	91	5.596	17.749	-0.415	1.00	0.00
ATOM	1360	HA	ALA	A	91	8.233	17.592	-1.331	1.00	0.00
ATOM	1361	1HB	ALA	A	91	5.955	15.754	-1.097	1.00	0.00
ATOM	1362	2HB	ALA	A	91	7.647	15.533	-0.650	1.00	0.00
ATOM	1363	3HB	ALA	A	91	7.142	15.318	-2.326	1.00	0.00
ATOM	1364	N	ARG	A	92	7.990	16.931	-3.955	1.00	0.00
ATOM	1365	CA	ARG	A	92	8.026	17.107	-5.402	1.00	0.00
ATOM	1366	C	ARG	A	92	9.001	16.127	-6.048	1.00	0.00
ATOM	1367	O	ARG	A	92	8.743	15.605	-7.132	1.00	0.00
ATOM	1368	CB	ARG	A	92	8.422	18.542	-5.755	1.00	0.00
ATOM	1369	CG	ARG	A	92	8.343	18.846	-7.242	1.00	0.00
ATOM	1370	CD	ARG	A	92	7.832	20.256	-7.496	1.00	0.00
ATOM	1371	NE	ARG	A	92	8.414	20.839	-8.703	1.00	0.00
ATOM	1372	CZ	ARG	A	92	9.707	21.120	-8.842	1.00	0.00
ATOM	1373	NH1	ARG	A	92	10.556	20.874	-7.852	1.00	0.00
ATOM	1374	NH2	ARG	A	92	10.153	21.650	-9.973	1.00	0.00
ATOM	1375	H	ARG	A	92	8.581	16.269	-3.538	1.00	0.00
ATOM	1376	HA	ARG	A	92	7.035	16.913	-5.783	1.00	0.00
ATOM	1377	1HB	ARG	A	92	7.765	19.223	-5.234	1.00	0.00

ATOM 1378	2HB	ARG A	92	9.437	18.714	-5.427	1.00	0.00
ATOM 1379	1HG	ARG A	92	9.327	18.749	-7.672	1.00	0.00
ATOM 1380	2HG	ARG A	92	7.672	18.140	-7.708	1.00	0.00
ATOM 1381	1HD	ARG A	92	6.758	20.221	-7.607	1.00	0.00
ATOM 1382	2HD	ARG A	92	8.087	20.875	-6.650	1.00	0.00
ATOM 1383	HE	ARG A	92	7.808	21.030	-9.450	1.00	0.00
ATOM 1384	1HH1	ARG A	92	10.227	20.475	-6.996	1.00	0.00
ATOM 1385	2HH1	ARG A	92	11.526	21.089	-7.961	1.00	0.00
ATOM 1386	1HH2	ARG A	92	9.517	21.836	-10.722	1.00	0.00
ATOM 1387	2HH2	ARG A	92	11.124	21.862	-10.077	1.00	0.00
ATOM 1388	N	ARG A	93	10.123	15.884	-5.376	1.00	0.00
ATOM 1389	CA	ARG A	93	11.137	14.969	-5.889	1.00	0.00
ATOM 1390	C	ARG A	93	10.890	13.542	-5.401	1.00	0.00
ATOM 1391	O	ARG A	93	11.803	12.877	-4.911	1.00	0.00
ATOM 1392	CB	ARG A	93	12.532	15.432	-5.466	1.00	0.00
ATOM 1393	CG	ARG A	93	13.043	16.626	-6.258	1.00	0.00
ATOM 1394	CD	ARG A	93	13.053	17.896	-5.419	1.00	0.00
ATOM 1395	NE	ARG A	93	14.391	18.471	-5.314	1.00	0.00
ATOM 1396	CZ	ARG A	93	14.752	19.346	-4.378	1.00	0.00
ATOM 1397	NH1	ARG A	93	13.878	19.748	-3.464	1.00	0.00
ATOM 1398	NH2	ARG A	93	15.991	19.818	-4.355	1.00	0.00
ATOM 1399	H	ARG A	93	10.274	16.331	-4.518	1.00	0.00
ATOM 1400	HA	ARG A	93	11.077	14.981	-6.967	1.00	0.00
ATOM 1401	1HB	ARG A	93	12.508	15.702	-4.420	1.00	0.00
ATOM 1402	2HB	ARG A	93	13.226	14.615	-5.601	1.00	0.00
ATOM 1403	1HG	ARG A	93	14.049	16.421	-6.591	1.00	0.00
ATOM 1404	2HG	ARG A	93	12.403	16.776	-7.115	1.00	0.00

ATOM	1405	1HD	ARG	A	93	12.396	18.619	-5.879	1.00	0.00
ATOM	1406	2HD	ARG	A	93	12.692	17.663	-4.429	1.00	0.00
ATOM	1407	HE	ARG	A	93	15.058	18.191	-5.977	1.00	0.00
ATOM	1408	1HH1	ARG	A	93	12.942	19.395	-3.476	1.00	0.00
ATOM	1409	2HH1	ARG	A	93	14.155	20.405	-2.763	1.00	0.00
ATOM	1410	1HH2	ARG	A	93	16.653	19.518	-5.041	1.00	0.00
ATOM	1411	2HH2	ARG	A	93	16.262	20.476	-3.651	1.00	0.00
ATOM	1412	N	VAL	A	94	9.654	13.076	-5.546	1.00	0.00
ATOM	1413	CA	VAL	A	94	9.293	11.727	-5.125	1.00	0.00
ATOM	1414	C	VAL	A	94	9.097	10.818	-6.334	1.00	0.00
ATOM	1415	O	VAL	A	94	8.068	10.878	-7.007	1.00	0.00
ATOM	1416	CB	VAL	A	94	8.007	11.723	-4.275	1.00	0.00
ATOM	1417	CG1	VAL	A	94	7.695	10.319	-3.778	1.00	0.00
ATOM	1418	CG2	VAL	A	94	8.134	12.691	-3.109	1.00	0.00
ATOM	1419	H	VAL	A	94	8.969	13.650	-5.947	1.00	0.00
ATOM	1420	HA	VAL	A	94	10.101	11.339	-4.522	1.00	0.00
ATOM	1421	HB	VAL	A	94	7.187	12.050	-4.899	1.00	0.00
ATOM	1422	1HG1	VAL	A	94	7.387	9.702	-4.609	1.00	0.00
ATOM	1423	2HG1	VAL	A	94	6.898	10.364	-3.050	1.00	0.00
ATOM	1424	3HG1	VAL	A	94	8.577	9.895	-3.321	1.00	0.00
ATOM	1425	1HG2	VAL	A	94	7.694	13.640	-3.379	1.00	0.00
ATOM	1426	2HG2	VAL	A	94	9.179	12.834	-2.871	1.00	0.00
ATOM	1427	3HG2	VAL	A	94	7.621	12.289	-2.249	1.00	0.00
ATOM	1428	N	ASP	A	95	10.091	9.980	-6.606	1.00	0.00
ATOM	1429	CA	ASP	A	95	10.030	9.061	-7.737	1.00	0.00
ATOM	1430	C	ASP	A	95	9.102	7.887	-7.439	1.00	0.00
ATOM	1431	O	ASP	A	95	8.885	7.533	-6.280	1.00	0.00



ATOM	1432	CB	ASP	A	95	11.429	8.546	-8.078	1.00	0.00
ATOM	1433	CG	ASP	A	95	12.401	9.671	-8.374	1.00	0.00
ATOM	1434	OD1	ASP	A	95	12.124	10.471	-9.292	1.00	0.00
ATOM	1435	OD2	ASP	A	95	13.442	9.751	-7.687	1.00	0.00
ATOM	1436	H	ASP	A	95	10.887	9.981	-6.035	1.00	0.00
ATOM	1437	HA	ASP	A	95	9.639	9.605	-8.584	1.00	0.00
ATOM	1438	1HB	ASP	A	95	11.810	7.976	-7.245	1.00	0.00
ATOM	1439	2HB	ASP	A	95	11.368	7.909	-8.949	1.00	0.00
ATOM	1440	N	ARG	A	96	8.559	7.289	-8.494	1.00	0.00
ATOM	1441	CA	ARG	A	96	7.655	6.154	-8.351	1.00	0.00
ATOM	1442	C	ARG	A	96	8.359	4.980	-7.678	1.00	0.00
ATOM	1443	O	ARG	A	96	7.785	4.304	-6.824	1.00	0.00
ATOM	1444	CB	ARG	A	96	7.122	5.725	-9.719	1.00	0.00
ATOM	1445	CG	ARG	A	96	8.216	5.440	-10.735	1.00	0.00
ATOM	1446	CD	ARG	A	96	7.643	4.924	-12.044	1.00	0.00
ATOM	1447	NE	ARG	A	96	7.443	5.998	-13.015	1.00	0.00
ATOM	1448	CZ	ARG	A	96	7.336	5.800	-14.328	1.00	0.00
ATOM	1449	NH1	ARG	A	96	7.405	4.574	-14.831	1.00	0.00
ATOM	1450	NH2	ARG	A	96	7.157	6.834	-15.140	1.00	0.00
ATOM	1451	H	ARG	A	96	8.771	7.619	-9.391	1.00	0.00
ATOM	1452	HA	ARG	A	96	6.826	6.464	-7.732	1.00	0.00
ATOM	1453	1HB	ARG	A	96	6.531	4.830	-9.599	1.00	0.00
ATOM	1454	2HB	ARG	A	96	6.494	6.512	-10.110	1.00	0.00
ATOM	1455	1HG	ARG	A	96	8.761	6.353	-10.927	1.00	0.00
ATOM	1456	2HG	ARG	A	96	8.886	4.698	-10.328	1.00	0.00
ATOM	1457	1HD	ARG	A	96	8.325	4.199	-12.460	1.00	0.00
ATOM	1458	2HD	ARG	A	96	6.693	4.451	-11.844	1.00	0.00

ATOM	1459	HE	ARG	A	96	7.387	6.914	-12.672	1.00	0.00
ATOM	1460	1HH1	ARG	A	96	7.539	3.791	-14.225	1.00	0.00
ATOM	1461	2HH1	ARG	A	96	7.324	4.434	-15.818	1.00	0.00
ATOM	1462	1HH2	ARG	A	96	7.104	7.760	-14.767	1.00	0.00
ATOM	1463	2HH2	ARG	A	96	7.078	6.687	-16.126	1.00	0.00
ATOM	1464	N	VAL	A	97	9.607	4.744	-8.069	1.00	0.00
ATOM	1465	CA	VAL	A	97	10.393	3.652	-7.506	1.00	0.00
ATOM	1466	C	VAL	A	97	10.504	3.775	-5.989	1.00	0.00
ATOM	1467	O	VAL	A	97	10.679	2.778	-5.287	1.00	0.00
ATOM	1468	CB	VAL	A	97	11.810	3.611	-8.110	1.00	0.00
ATOM	1469	CG1	VAL	A	97	12.548	2.358	-7.662	1.00	0.00
ATOM	1470	CG2	VAL	A	97	11.745	3.689	-9.628	1.00	0.00
ATOM	1471	H	VAL	A	97	10.010	5.317	-8.754	1.00	0.00
ATOM	1472	HA	VAL	A	97	9.895	2.724	-7.746	1.00	0.00
ATOM	1473	HB	VAL	A	97	12.357	4.471	-7.751	1.00	0.00
ATOM	1474	1HG1	VAL	A	97	11.837	1.635	-7.290	1.00	0.00
ATOM	1475	2HG1	VAL	A	97	13.245	2.612	-6.878	1.00	0.00
ATOM	1476	3HG1	VAL	A	97	13.085	1.937	-8.499	1.00	0.00
ATOM	1477	1HG2	VAL	A	97	12.522	3.070	-10.054	1.00	0.00
ATOM	1478	2HG2	VAL	A	97	11.887	4.712	-9.943	1.00	0.00
ATOM	1479	3HG2	VAL	A	97	10.781	3.339	-9.966	1.00	0.00
ATOM	1480	N	ALA	A	98	10.403	5.002	-5.488	1.00	0.00
ATOM	1481	CA	ALA	A	98	10.492	5.254	-4.055	1.00	0.00
ATOM	1482	C	ALA	A	98	9.420	4.484	-3.292	1.00	0.00
ATOM	1483	O	ALA	A	98	9.723	3.730	-2.367	1.00	0.00
ATOM	1484	CB	ALA	A	98	10.376	6.743	-3.774	1.00	0.00
ATOM	1485	H	ALA	A	98	10.265	5.757	-6.098	1.00	0.00

ATOM 1486	HA	ALA	A	98	11.465	4.923	-3.720	1.00	0.00
ATOM 1487	1HB	ALA	A	98	10.441	6.914	-2.710	1.00	0.00
ATOM 1488	2HB	ALA	A	98	9.427	7.105	-4.141	1.00	0.00
ATOM 1489	3HB	ALA	A	98	11.178	7.268	-4.272	1.00	0.00
ATOM 1490	N	ILE	A	99	8.165	4.678	-3.685	1.00	0.00
ATOM 1491	CA	ILE	A	99	7.050	4.000	-3.034	1.00	0.00
ATOM 1492	C	ILE	A	99	7.089	2.497	-3.296	1.00	0.00
ATOM 1493	O	ILE	A	99	6.509	1.712	-2.547	1.00	0.00
ATOM 1494	CB	ILE	A	99	5.691	4.558	-3.508	1.00	0.00
ATOM 1495	CG1	ILE	A	99	5.672	6.083	-3.399	1.00	0.00
ATOM 1496	CG2	ILE	A	99	4.556	3.949	-2.697	1.00	0.00
ATOM 1497	CD1	ILE	A	99	4.792	6.753	-4.432	1.00	0.00
ATOM 1498	H	ILE	A	99	7.985	5.290	-4.428	1.00	0.00
ATOM 1499	HA	ILE	A	99	7.132	4.171	-1.971	1.00	0.00
ATOM 1500	HB	ILE	A	99	5.549	4.277	-4.541	1.00	0.00
ATOM 1501	1HG1	ILE	A	99	5.306	6.361	-2.423	1.00	0.00
ATOM 1502	2HG1	ILE	A	99	6.677	6.461	-3.522	1.00	0.00
ATOM 1503	1HG2	ILE	A	99	4.960	3.246	-1.982	1.00	0.00
ATOM 1504	2HG2	ILE	A	99	3.874	3.437	-3.359	1.00	0.00
ATOM 1505	3HG2	ILE	A	99	4.028	4.732	-2.171	1.00	0.00
ATOM 1506	1HD1	ILE	A	99	3.766	6.734	-4.096	1.00	0.00
ATOM 1507	2HD1	ILE	A	99	4.875	6.227	-5.370	1.00	0.00
ATOM 1508	3HD1	ILE	A	99	5.107	7.778	-4.563	1.00	0.00
ATOM 1509	N	TYR	A	100	7.776	2.101	-4.364	1.00	0.00
ATOM 1510	CA	TYR	A	100	7.887	0.692	-4.722	1.00	0.00
ATOM 1511	C	TYR	A	100	8.979	0.006	-3.908	1.00	0.00
ATOM 1512	O	TYR	A	100	8.792	-1.104	-3.409	1.00	0.00

ATOM 1513	CB	TYR A 100	8.191	0.550	-6.214	1.00	0.00
ATOM 1514	CG	TYR A 100	8.221	-0.884	-6.693	1.00	0.00
ATOM 1515	CD1	TYR A 100	7.088	-1.683	-6.625	1.00	0.00
ATOM 1516	CD2	TYR A 100	9.385	-1.437	-7.216	1.00	0.00
ATOM 1517	CE1	TYR A 100	7.111	-2.995	-7.062	1.00	0.00
ATOM 1518	CE2	TYR A 100	9.416	-2.747	-7.655	1.00	0.00
ATOM 1519	CZ	TYR A 100	8.277	-3.521	-7.576	1.00	0.00
ATOM 1520	OH	TYR A 100	8.304	-4.826	-8.013	1.00	0.00
ATOM 1521	H	TYR A 100	8.215	2.772	-4.926	1.00	0.00
ATOM 1522	HA	TYR A 100	6.941	0.218	-4.509	1.00	0.00
ATOM 1523	1HB	TYR A 100	7.435	1.072	-6.779	1.00	0.00
ATOM 1524	2HB	TYR A 100	9.156	0.989	-6.422	1.00	0.00
ATOM 1525	HD1	TYR A 100	6.175	-1.268	-6.221	1.00	0.00
ATOM 1526	HD2	TYR A 100	10.275	-0.829	-7.275	1.00	0.00
ATOM 1527	HE1	TYR A 100	6.219	-3.600	-7.000	1.00	0.00
ATOM 1528	HE2	TYR A 100	10.329	-3.159	-8.058	1.00	0.00
ATOM 1529	HH	TYR A 100	8.987	-5.307	-7.541	1.00	0.00
ATOM 1530	N	GLU A 101	10.119	0.674	-3.781	1.00	0.00
ATOM 1531	CA	GLU A 101	11.246	0.132	-3.035	1.00	0.00
ATOM 1532	C	GLU A 101	10.926	0.024	-1.546	1.00	0.00
ATOM 1533	O	GLU A 101	11.123	-1.026	-0.935	1.00	0.00
ATOM 1534	CB	GLU A 101	12.480	1.011	-3.241	1.00	0.00
ATOM 1535	CG	GLU A 101	13.183	0.771	-4.566	1.00	0.00
ATOM 1536	CD	GLU A 101	14.690	0.897	-4.456	1.00	0.00
ATOM 1537	OE1	GLU A 101	15.309	1.454	-5.388	1.00	0.00
ATOM 1538	OE2	GLU A 101	15.252	0.441	-3.439	1.00	0.00
ATOM 1539	H	GLU A 101	10.208	1.552	-4.206	1.00	0.00

ATOM	1540	HA	GLU A 101	11.454	-0.855	-3.419	1.00	0.00
ATOM	1541	1HB	GLU A 101	12.178	2.047	-3.200	1.00	0.00
ATOM	1542	2HB	GLU A 101	13.180	0.819	-2.444	1.00	0.00
ATOM	1543	1HG	GLU A 101	12.945	-0.224	-4.911	1.00	0.00
ATOM	1544	2HG	GLU A 101	12.828	1.495	-5.284	1.00	0.00
ATOM	1545	N	GLU A 102	10.438	1.116	-0.968	1.00	0.00
ATOM	1546	CA	GLU A 102	10.098	1.141	0.452	1.00	0.00
ATOM	1547	C	GLU A 102	8.966	0.167	0.767	1.00	0.00
ATOM	1548	O	GLU A 102	8.968	-0.482	1.813	1.00	0.00
ATOM	1549	CB	GLU A 102	9.704	2.556	0.880	1.00	0.00
ATOM	1550	CG	GLU A 102	8.433	3.062	0.216	1.00	0.00
ATOM	1551	CD	GLU A 102	7.178	2.585	0.921	1.00	0.00
ATOM	1552	OE1	GLU A 102	7.268	2.223	2.113	1.00	0.00
ATOM	1553	OE2	GLU A 102	6.106	2.572	0.280	1.00	0.00
ATOM	1554	H	GLU A 102	10.306	1.925	-1.505	1.00	0.00
ATOM	1555	HA	GLU A 102	10.976	0.841	1.005	1.00	0.00
ATOM	1556	1HB	GLU A 102	9.555	2.568	1.949	1.00	0.00
ATOM	1557	2HB	GLU A 102	10.508	3.232	0.630	1.00	0.00
ATOM	1558	1HG	GLU A 102	8.444	4.142	0.226	1.00	0.00
ATOM	1559	2HG	GLU A 102	8.412	2.712	-0.805	1.00	0.00
ATOM	1560	N	PHE A 103	7.999	0.074	-0.139	1.00	0.00
ATOM	1561	CA	PHE A 103	6.860	-0.819	0.049	1.00	0.00
ATOM	1562	C	PHE A 103	7.302	-2.279	0.054	1.00	0.00
ATOM	1563	O	PHE A 103	6.731	-3.108	0.762	1.00	0.00
ATOM	1564	CB	PHE A 103	5.820	-0.591	-1.049	1.00	0.00
ATOM	1565	CG	PHE A 103	4.595	-1.449	-0.904	1.00	0.00
ATOM	1566	CD1	PHE A 103	4.452	-2.607	-1.649	1.00	0.00

ATOM 1567	CD2	PHE A 103	3.587	-1.094	-0.021	1.00	0.00
ATOM 1568	CE1	PHE A 103	3.325	-3.397	-1.517	1.00	0.00
ATOM 1569	CE2	PHE A 103	2.458	-1.880	0.114	1.00	0.00
ATOM 1570	CZ	PHE A 103	2.328	-3.033	-0.635	1.00	0.00
ATOM 1571	H	PHE A 103	8.050	0.619	-0.952	1.00	0.00
ATOM 1572	HA	PHE A 103	6.416	-0.589	1.005	1.00	0.00
ATOM 1573	1HB	PHE A 103	5.506	0.441	-1.028	1.00	0.00
ATOM 1574	2HB	PHE A 103	6.267	-0.807	-2.009	1.00	0.00
ATOM 1575	HD1	PHE A 103	5.231	-2.893	-2.339	1.00	0.00
ATOM 1576	HD2	PHE A 103	3.687	-0.192	0.565	1.00	0.00
ATOM 1577	HE1	PHE A 103	3.225	-4.298	-2.104	1.00	0.00
ATOM 1578	HE2	PHE A 103	1.679	-1.593	0.806	1.00	0.00
ATOM 1579	HZ	PHE A 103	1.446	-3.649	-0.530	1.00	0.00
ATOM 1580	N	LEU A 104	8.320	-2.589	-0.743	1.00	0.00
ATOM 1581	CA	LEU A 104	8.833	-3.952	-0.830	1.00	0.00
ATOM 1582	C	LEU A 104	9.662	-4.305	0.402	1.00	0.00
ATOM 1583	O	LEU A 104	9.714	-5.463	0.815	1.00	0.00
ATOM 1584	CB	LEU A 104	9.680	-4.119	-2.094	1.00	0.00
ATOM 1585	CG	LEU A 104	8.908	-3.998	-3.408	1.00	0.00
ATOM 1586	CD1	LEU A 104	9.835	-3.558	-4.532	1.00	0.00
ATOM 1587	CD2	LEU A 104	8.236	-5.317	-3.754	1.00	0.00
ATOM 1588	H	LEU A 104	8.734	-1.886	-1.286	1.00	0.00
ATOM 1589	HA	LEU A 104	7.988	-4.621	-0.884	1.00	0.00
ATOM 1590	1HB	LEU A 104	10.456	-3.367	-2.083	1.00	0.00
ATOM 1591	2HB	LEU A 104	10.145	-5.093	-2.064	1.00	0.00
ATOM 1592	HG	LEU A 104	8.139	-3.247	-3.298	1.00	0.00
ATOM 1593	1HD1	LEU A 104	10.128	-4.419	-5.115	1.00	0.00

ATOM	1594	2HD1	LEU	A	104	10.714	-3.090	-4.113	1.00	0.00
ATOM	1595	3HD1	LEU	A	104	9.320	-2.852	-5.166	1.00	0.00
ATOM	1596	1HD2	LEU	A	104	7.468	-5.531	-3.025	1.00	0.00
ATOM	1597	2HD2	LEU	A	104	8.971	-6.109	-3.748	1.00	0.00
ATOM	1598	3HD2	LEU	A	104	7.791	-5.248	-4.737	1.00	0.00
ATOM	1599	N	ARG	A	105	10.308	-3.300	0.983	1.00	0.00
ATOM	1600	CA	ARG	A	105	11.135	-3.506	2.167	1.00	0.00
ATOM	1601	C	ARG	A	105	10.277	-3.841	3.383	1.00	0.00
ATOM	1602	O	ARG	A	105	10.724	-4.532	4.299	1.00	0.00
ATOM	1603	CB	ARG	A	105	11.977	-2.260	2.448	1.00	0.00
ATOM	1604	CG	ARG	A	105	13.419	-2.572	2.819	1.00	0.00
ATOM	1605	CD	ARG	A	105	14.401	-1.854	1.906	1.00	0.00
ATOM	1606	NE	ARG	A	105	15.722	-2.478	1.924	1.00	0.00
ATOM	1607	CZ	ARG	A	105	16.029	-3.582	1.248	1.00	0.00
ATOM	1608	NH1	ARG	A	105	15.115	-4.188	0.500	1.00	0.00
ATOM	1609	NH2	ARG	A	105	17.255	-4.084	1.320	1.00	0.00
ATOM	1610	H	ARG	A	105	10.229	-2.399	0.606	1.00	0.00
ATOM	1611	HA	ARG	A	105	11.795	-4.337	1.969	1.00	0.00
ATOM	1612	1HB	ARG	A	105	11.981	-1.636	1.566	1.00	0.00
ATOM	1613	2HB	ARG	A	105	11.529	-1.712	3.264	1.00	0.00
ATOM	1614	1HG	ARG	A	105	13.594	-2.256	3.837	1.00	0.00
ATOM	1615	2HG	ARG	A	105	13.579	-3.637	2.738	1.00	0.00
ATOM	1616	1HD	ARG	A	105	14.017	-1.877	0.897	1.00	0.00
ATOM	1617	2HD	ARG	A	105	14.492	-0.828	2.233	1.00	0.00
ATOM	1618	HE	ARG	A	105	16.416	-2.052	2.468	1.00	0.00
ATOM	1619	1HH1	ARG	A	105	14.188	-3.815	0.441	1.00	0.00
ATOM	1620	2HH1	ARG	A	105	15.353	-5.017	-0.006	1.00	0.00

ATOM 1621	1HH2	ARG	A	105	17.948	-3.631	1.881	1.00	0.00
ATOM 1622	2HH2	ARG	A	105	17.486	-4.913	0.813	1.00	0.00
ATOM 1623	N	MET	A	106	9.044	-3.342	3.389	1.00	0.00
ATOM 1624	CA	MET	A	106	8.126	-3.588	4.496	1.00	0.00
ATOM 1625	C	MET	A	106	7.257	-4.816	4.234	1.00	0.00
ATOM 1626	O	MET	A	106	6.744	-5.433	5.166	1.00	0.00
ATOM 1627	CB	MET	A	106	7.240	-2.364	4.730	1.00	0.00
ATOM 1628	CG	MET	A	106	6.506	-2.393	6.061	1.00	0.00
ATOM 1629	SD	MET	A	106	6.984	-1.039	7.153	1.00	0.00
ATOM 1630	CE	MET	A	106	6.824	0.359	6.045	1.00	0.00
ATOM 1631	H	MET	A	106	8.745	-2.797	2.632	1.00	0.00
ATOM 1632	HA	MET	A	106	8.717	-3.764	5.382	1.00	0.00
ATOM 1633	1HB	MET	A	106	7.855	-1.477	4.699	1.00	0.00
ATOM 1634	2HB	MET	A	106	6.505	-2.310	3.941	1.00	0.00
ATOM 1635	1HG	MET	A	106	5.445	-2.326	5.873	1.00	0.00
ATOM 1636	2HG	MET	A	106	6.723	-3.330	6.555	1.00	0.00
ATOM 1637	1HE	MET	A	106	6.132	0.113	5.254	1.00	0.00
ATOM 1638	2HE	MET	A	106	7.789	0.594	5.621	1.00	0.00
ATOM 1639	3HE	MET	A	106	6.455	1.212	6.595	1.00	0.00
ATOM 1640	N	THR	A	107	7.092	-5.164	2.961	1.00	0.00
ATOM 1641	CA	THR	A	107	6.282	-6.318	2.586	1.00	0.00
ATOM 1642	C	THR	A	107	7.147	-7.559	2.384	1.00	0.00
ATOM 1643	O	THR	A	107	6.760	-8.487	1.675	1.00	0.00
ATOM 1644	CB	THR	A	107	5.496	-6.019	1.308	1.00	0.00
ATOM 1645	OG1	THR	A	107	6.372	-5.666	0.251	1.00	0.00
ATOM 1646	CG2	THR	A	107	4.496	-4.895	1.470	1.00	0.00
ATOM 1647	H	THR	A	107	7.523	-4.634	2.259	1.00	0.00



ATOM 1648	HA	THR A 107	5.585	-6.506	3.388	1.00	0.00
ATOM 1649	HB	THR A 107	4.952	-6.906	1.016	1.00	0.00
ATOM 1650	HG1	THR A 107	5.860	-5.452	-0.532	1.00	0.00
ATOM 1651	1HG2	THR A 107	4.727	-4.105	0.770	1.00	0.00
ATOM 1652	2HG2	THR A 107	4.547	-4.510	2.478	1.00	0.00
ATOM 1653	3HG2	THR A 107	3.501	-5.267	1.276	1.00	0.00
ATOM 1654	N	HIS A 108	8.321	-7.571	3.013	1.00	0.00
ATOM 1655	CA	HIS A 108	9.237	-8.703	2.901	1.00	0.00
ATOM 1656	C	HIS A 108	9.504	-9.050	1.439	1.00	0.00
ATOM 1657	O	HIS A 108	9.136	-10.125	0.966	1.00	0.00
ATOM 1658	CB	HIS A 108	8.667	-9.919	3.633	1.00	0.00
ATOM 1659	CG	HIS A 108	8.680	-9.781	5.123	1.00	0.00
ATOM 1660	ND1	HIS A 108	9.841	-9.667	5.859	1.00	0.00
ATOM 1661	CD2	HIS A 108	7.665	-9.738	6.018	1.00	0.00
ATOM 1662	CE1	HIS A 108	9.539	-9.561	7.140	1.00	0.00
ATOM 1663	NE2	HIS A 108	8.226	-9.600	7.263	1.00	0.00
ATOM 1664	H	HIS A 108	8.577	-6.805	3.566	1.00	0.00
ATOM 1665	HA	HIS A 108	10.169	-8.419	3.367	1.00	0.00
ATOM 1666	1HB	HIS A 108	7.644	-10.070	3.323	1.00	0.00
ATOM 1667	2HB	HIS A 108	9.249	-10.792	3.374	1.00	0.00
ATOM 1668	HD1	HIS A 108	10.752	-9.665	5.495	1.00	0.00
ATOM 1669	HD2	HIS A 108	6.609	-9.800	5.793	1.00	0.00
ATOM 1670	HE1	HIS A 108	10.247	-9.457	7.950	1.00	0.00
ATOM 1671	HE2	HIS A 108	7.731	-9.458	8.098	1.00	0.00
ATOM 1672	N	ASN A 109	10.146	-8.130	0.726	1.00	0.00
ATOM 1673	CA	ASN A 109	10.460	-8.339	-0.683	1.00	0.00
ATOM 1674	C	ASN A 109	9.185	-8.504	-1.503	1.00	0.00

ATOM 1675	O	ASN A 109	9.173	-9.204	-2.517	1.00	0.00
ATOM 1676	CB	ASN A 109	11.352	-9.570	-0.852	1.00	0.00
ATOM 1677	CG	ASN A 109	12.022	-9.620	-2.211	1.00	0.00
ATOM 1678	OD1	ASN A 109	12.053	-8.625	-2.936	1.00	0.00
ATOM 1679	ND2	ASN A 109	12.561	-10.780	-2.564	1.00	0.00
ATOM 1680	H	ASN A 109	10.414	-7.291	1.156	1.00	0.00
ATOM 1681	HA	ASN A 109	10.992	-7.468	-1.037	1.00	0.00
ATOM 1682	1HB	ASN A 109	12.121	-9.557	-0.094	1.00	0.00
ATOM 1683	2HB	ASN A 109	10.751	-10.461	-0.734	1.00	0.00
ATOM 1684	1HD2	ASN A 109	12.498	-11.529	-1.935	1.00	0.00
ATOM 1685	2HD2	ASN A 109	13.001	-10.840	-3.437	1.00	0.00
ATOM 1686	N	GLY A 110	8.113	-7.857	-1.059	1.00	0.00
ATOM 1687	CA	GLY A 110	6.848	-7.945	-1.763	1.00	0.00
ATOM 1688	C	GLY A 110	6.269	-9.346	-1.742	1.00	0.00
ATOM 1689	O	GLY A 110	6.004	-9.931	-2.792	1.00	0.00
ATOM 1690	H	GLY A 110	8.181	-7.313	-0.245	1.00	0.00
ATOM 1691	1HA	GLY A 110	6.142	-7.270	-1.301	1.00	0.00
ATOM 1692	2HA	GLY A 110	6.997	-7.645	-2.790	1.00	0.00
ATOM 1693	N	THR A 111	6.075	-9.886	-0.543	1.00	0.00
ATOM 1694	CA	THR A 111	5.525	-11.228	-0.390	1.00	0.00
ATOM 1695	C	THR A 111	4.345	-11.231	0.576	1.00	0.00
ATOM 1696	O	THR A 111	3.314	-11.847	0.310	1.00	0.00
ATOM 1697	CB	THR A 111	6.605	-12.191	0.107	1.00	0.00
ATOM 1698	OG1	THR A 111	7.184	-11.718	1.309	1.00	0.00
ATOM 1699	CG2	THR A 111	7.724	-12.402	-0.890	1.00	0.00
ATOM 1700	H	THR A 111	6.306	-9.370	0.257	1.00	0.00
ATOM 1701	HA	THR A 111	5.181	-11.558	-1.359	1.00	0.00

ATOM 1702	HB	THR A 111	6.152	-13.153	0.303	1.00	0.00
ATOM 1703	HG1	THR A 111	7.482	-10.814	1.187	1.00	0.00
ATOM 1704	1HG2	THR A 111	8.479	-11.642	-0.749	1.00	0.00
ATOM 1705	2HG2	THR A 111	7.330	-12.336	-1.893	1.00	0.00
ATOM 1706	3HG2	THR A 111	8.162	-13.377	-0.739	1.00	0.00
ATOM 1707	N	GLN A 112	4.505	-10.541	1.701	1.00	0.00
ATOM 1708	CA	GLN A 112	3.451	-10.468	2.707	1.00	0.00
ATOM 1709	C	GLN A 112	3.225	-9.031	3.163	1.00	0.00
ATOM 1710	O	GLN A 112	4.109	-8.407	3.749	1.00	0.00
ATOM 1711	CB	GLN A 112	3.806	-11.345	3.909	1.00	0.00
ATOM 1712	CG	GLN A 112	2.653	-11.546	4.877	1.00	0.00
ATOM 1713	CD	GLN A 112	2.893	-12.691	5.841	1.00	0.00
ATOM 1714	OE1	GLN A 112	3.819	-13.483	5.663	1.00	0.00
ATOM 1715	NE2	GLN A 112	2.057	-12.785	6.868	1.00	0.00
ATOM 1716	H	GLN A 112	5.350	-10.071	1.859	1.00	0.00
ATOM 1717	HA	GLN A 112	2.542	-10.838	2.261	1.00	0.00
ATOM 1718	1HB	GLN A 112	4.121	-12.315	3.551	1.00	0.00
ATOM 1719	2HB	GLN A 112	4.624	-10.886	4.446	1.00	0.00
ATOM 1720	1HG	GLN A 112	2.516	-10.639	5.447	1.00	0.00
ATOM 1721	2HG	GLN A 112	1.756	-11.752	4.310	1.00	0.00
ATOM 1722	1HE2	GLN A 112	1.343	-12.119	6.947	1.00	0.00
ATOM 1723	2HE2	GLN A 112	2.190	-13.517	7.507	1.00	0.00
ATOM 1724	N	LEU A 113	2.030	-8.512	2.895	1.00	0.00
ATOM 1725	CA	LEU A 113	1.684	-7.150	3.282	1.00	0.00
ATOM 1726	C	LEU A 113	0.972	-7.137	4.632	1.00	0.00
ATOM 1727	O	LEU A 113	-0.250	-7.263	4.700	1.00	0.00
ATOM 1728	CB	LEU A 113	0.800	-6.502	2.211	1.00	0.00

ATOM 1729	CG	LEU A 113	0.367	-5.056	2.491	1.00	0.00
ATOM 1730	CD1	LEU A 113	-0.896	-5.029	3.336	1.00	0.00
ATOM 1731	CD2	LEU A 113	1.483	-4.276	3.174	1.00	0.00
ATOM 1732	H	LEU A 113	1.365	-9.060	2.427	1.00	0.00
ATOM 1733	HA	LEU A 113	2.601	-6.588	3.368	1.00	0.00
ATOM 1734	1HB	LEU A 113	1.339	-6.516	1.275	1.00	0.00
ATOM 1735	2HB	LEU A 113	-0.091	-7.102	2.101	1.00	0.00
ATOM 1736	HG	LEU A 113	0.147	-4.569	1.552	1.00	0.00
ATOM 1737	1HD1	LEU A 113	-1.453	-5.941	3.180	1.00	0.00
ATOM 1738	2HD1	LEU A 113	-1.503	-4.184	3.049	1.00	0.00
ATOM 1739	3HD1	LEU A 113	-0.630	-4.943	4.379	1.00	0.00
ATOM 1740	1HD2	LEU A 113	2.440	-4.665	2.858	1.00	0.00
ATOM 1741	2HD2	LEU A 113	1.390	-4.377	4.244	1.00	0.00
ATOM 1742	3HD2	LEU A 113	1.411	-3.233	2.903	1.00	0.00
ATOM 1743	N	LEU A 114	1.748	-6.988	5.701	1.00	0.00
ATOM 1744	CA	LEU A 114	1.199	-6.960	7.052	1.00	0.00
ATOM 1745	C	LEU A 114	0.487	-8.269	7.384	1.00	0.00
ATOM 1746	O	LEU A 114	1.051	-9.142	8.044	1.00	0.00
ATOM 1747	CB	LEU A 114	0.236	-5.781	7.211	1.00	0.00
ATOM 1748	CG	LEU A 114	0.904	-4.406	7.284	1.00	0.00
ATOM 1749	CD1	LEU A 114	-0.135	-3.319	7.516	1.00	0.00
ATOM 1750	CD2	LEU A 114	1.958	-4.385	8.381	1.00	0.00
ATOM 1751	H	LEU A 114	2.715	-6.895	5.577	1.00	0.00
ATOM 1752	HA	LEU A 114	2.022	-6.832	7.739	1.00	0.00
ATOM 1753	1HB	LEU A 114	-0.445	-5.784	6.372	1.00	0.00
ATOM 1754	2HB	LEU A 114	-0.333	-5.927	8.117	1.00	0.00
ATOM 1755	HG	LEU A 114	1.395	-4.203	6.343	1.00	0.00

ATOM 1756	1HD1	LEU	A	114	0.253	-2.593	8.216	1.00	0.00
ATOM 1757	2HD1	LEU	A	114	-1.034	-3.760	7.917	1.00	0.00
ATOM 1758	3HD1	LEU	A	114	-0.360	-2.831	6.579	1.00	0.00
ATOM 1759	1HD2	LEU	A	114	2.788	-5.014	8.096	1.00	0.00
ATOM 1760	2HD2	LEU	A	114	1.527	-4.752	9.302	1.00	0.00
ATOM 1761	3HD2	LEU	A	114	2.306	-3.372	8.526	1.00	0.00
ATOM 1762	N	ASN	A	115	-0.754	-8.401	6.925	1.00	0.00
ATOM 1763	CA	ASN	A	115	-1.538	-9.605	7.175	1.00	0.00
ATOM 1764	C	ASN	A	115	-2.211	-10.092	5.896	1.00	0.00
ATOM 1765	O	ASN	A	115	-3.347	-10.566	5.922	1.00	0.00
ATOM 1766	CB	ASN	A	115	-2.593	-9.336	8.250	1.00	0.00
ATOM 1767	CG	ASN	A	115	-2.017	-9.382	9.651	1.00	0.00
ATOM 1768	OD1	ASN	A	115	-2.283	-10.310	10.415	1.00	0.00
ATOM 1769	ND2	ASN	A	115	-1.221	-8.377	9.996	1.00	0.00
ATOM 1770	H	ASN	A	115	-1.151	-7.671	6.405	1.00	0.00
ATOM 1771	HA	ASN	A	115	-0.865	-10.370	7.528	1.00	0.00
ATOM 1772	1HB	ASN	A	115	-3.021	-8.357	8.089	1.00	0.00
ATOM 1773	2HB	ASN	A	115	-3.372	-10.081	8.175	1.00	0.00
ATOM 1774	1HD2	ASN	A	115	-1.053	-7.671	9.337	1.00	0.00
ATOM 1775	2HD2	ASN	A	115	-0.834	-8.381	10.897	1.00	0.00
ATOM 1776	N	PHE	A	116	-1.504	-9.972	4.778	1.00	0.00
ATOM 1777	CA	PHE	A	116	-2.033	-10.401	3.488	1.00	0.00
ATOM 1778	C	PHE	A	116	-0.905	-10.775	2.533	1.00	0.00
ATOM 1779	O	PHE	A	116	-0.149	-9.914	2.081	1.00	0.00
ATOM 1780	CB	PHE	A	116	-2.893	-9.296	2.874	1.00	0.00
ATOM 1781	CG	PHE	A	116	-4.264	-9.197	3.479	1.00	0.00
ATOM 1782	CD1	PHE	A	116	-4.483	-8.426	4.609	1.00	0.00

ATOM 1783	CD2	PHE A 116	-5.334	-9.875	2.917	1.00	0.00
ATOM 1784	CE1	PHE A 116	-5.744	-8.333	5.169	1.00	0.00
ATOM 1785	CE2	PHE A 116	-6.597	-9.785	3.471	1.00	0.00
ATOM 1786	CZ	PHE A 116	-6.802	-9.014	4.599	1.00	0.00
ATOM 1787	H	PHE A 116	-0.603	-9.587	4.820	1.00	0.00
ATOM 1788	HA	PHE A 116	-2.649	-11.272	3.658	1.00	0.00
ATOM 1789	1HB	PHE A 116	-2.399	-8.345	3.014	1.00	0.00
ATOM 1790	2HB	PHE A 116	-3.007	-9.484	1.817	1.00	0.00
ATOM 1791	HD1	PHE A 116	-3.656	-7.893	5.055	1.00	0.00
ATOM 1792	HD2	PHE A 116	-5.176	-10.478	2.035	1.00	0.00
ATOM 1793	HE1	PHE A 116	-5.901	-7.731	6.051	1.00	0.00
ATOM 1794	HE2	PHE A 116	-7.423	-10.319	3.023	1.00	0.00
ATOM 1795	HZ	PHE A 116	-7.788	-8.943	5.034	1.00	0.00
ATOM 1796	N	THR A 117	-0.798	-12.065	2.229	1.00	0.00
ATOM 1797	CA	THR A 117	0.239	-12.554	1.327	1.00	0.00
ATOM 1798	C	THR A 117	-0.096	-12.213	-0.121	1.00	0.00
ATOM 1799	O	THR A 117	-1.134	-12.622	-0.642	1.00	0.00
ATOM 1800	CB	THR A 117	0.406	-14.067	1.481	1.00	0.00
ATOM 1801	OG1	THR A 117	-0.837	-14.727	1.321	1.00	0.00
ATOM 1802	CG2	THR A 117	0.971	-14.472	2.826	1.00	0.00
ATOM 1803	H	THR A 117	-1.430	-12.702	2.622	1.00	0.00
ATOM 1804	HA	THR A 117	1.165	-12.070	1.594	1.00	0.00
ATOM 1805	HB	THR A 117	1.081	-14.423	0.717	1.00	0.00
ATOM 1806	HG1	THR A 117	-1.115	-14.669	0.404	1.00	0.00
ATOM 1807	1HG2	THR A 117	0.346	-14.077	3.613	1.00	0.00
ATOM 1808	2HG2	THR A 117	1.971	-14.079	2.928	1.00	0.00
ATOM 1809	3HG2	THR A 117	0.999	-15.550	2.894	1.00	0.00

ATOM 1810	N	LEU A 118	0.792	-11.464	-0.767	1.00	0.00
ATOM 1811	CA	LEU A 118	0.590	-11.071	-2.156	1.00	0.00
ATOM 1812	C	LEU A 118	1.865	-11.268	-2.969	1.00	0.00
ATOM 1813	O	LEU A 118	2.962	-11.340	-2.415	1.00	0.00
ATOM 1814	CB	LEU A 118	0.132	-9.612	-2.237	1.00	0.00
ATOM 1815	CG	LEU A 118	1.099	-8.590	-1.638	1.00	0.00
ATOM 1816	CD1	LEU A 118	2.078	-8.098	-2.694	1.00	0.00
ATOM 1817	CD2	LEU A 118	0.330	-7.424	-1.035	1.00	0.00
ATOM 1818	H	LEU A 118	1.601	-11.168	-0.299	1.00	0.00
ATOM 1819	HA	LEU A 118	-0.183	-11.702	-2.567	1.00	0.00
ATOM 1820	1HB	LEU A 118	-0.024	-9.363	-3.277	1.00	0.00
ATOM 1821	2HB	LEU A 118	-0.811	-9.526	-1.720	1.00	0.00
ATOM 1822	HG	LEU A 118	1.667	-9.060	-0.850	1.00	0.00
ATOM 1823	1HD1	LEU A 118	2.263	-7.044	-2.549	1.00	0.00
ATOM 1824	2HD1	LEU A 118	1.657	-8.258	-3.675	1.00	0.00
ATOM 1825	3HD1	LEU A 118	3.006	-8.643	-2.606	1.00	0.00
ATOM 1826	1HD2	LEU A 118	-0.639	-7.352	-1.506	1.00	0.00
ATOM 1827	2HD2	LEU A 118	0.879	-6.508	-1.198	1.00	0.00
ATOM 1828	3HD2	LEU A 118	0.204	-7.586	0.024	1.00	0.00
ATOM 1829	N	ASP A 119	1.711	-11.364	-4.285	1.00	0.00
ATOM 1830	CA	ASP A 119	2.848	-11.563	-5.177	1.00	0.00
ATOM 1831	C	ASP A 119	3.716	-10.312	-5.252	1.00	0.00
ATOM 1832	O	ASP A 119	3.280	-9.218	-4.890	1.00	0.00
ATOM 1833	CB	ASP A 119	2.364	-11.946	-6.576	1.00	0.00
ATOM 1834	CG	ASP A 119	3.249	-12.991	-7.228	1.00	0.00
ATOM 1835	OD1	ASP A 119	3.571	-12.834	-8.424	1.00	0.00
ATOM 1836	OD2	ASP A 119	3.622	-13.966	-6.542	1.00	0.00

ATOM	1837	H	ASP	A	119	0.810	-11.304	-4.666	1.00	0.00
ATOM	1838	HA	ASP	A	119	3.442	-12.373	-4.778	1.00	0.00
ATOM	1839	1HB	ASP	A	119	1.363	-12.344	-6.508	1.00	0.00
ATOM	1840	2HB	ASP	A	119	2.356	-11.066	-7.201	1.00	0.00
ATOM	1841	N	ARG	A	120	4.946	-10.481	-5.724	1.00	0.00
ATOM	1842	CA	ARG	A	120	5.879	-9.367	-5.849	1.00	0.00
ATOM	1843	C	ARG	A	120	5.829	-8.771	-7.253	1.00	0.00
ATOM	1844	O	ARG	A	120	5.790	-7.552	-7.418	1.00	0.00
ATOM	1845	CB	ARG	A	120	7.302	-9.828	-5.530	1.00	0.00
ATOM	1846	CG	ARG	A	120	8.310	-8.693	-5.466	1.00	0.00
ATOM	1847	CD	ARG	A	120	9.738	-9.215	-5.436	1.00	0.00
ATOM	1848	NE	ARG	A	120	10.083	-9.934	-6.661	1.00	0.00
ATOM	1849	CZ	ARG	A	120	11.318	-10.323	-6.968	1.00	0.00
ATOM	1850	NH1	ARG	A	120	12.327	-10.065	-6.145	1.00	0.00
ATOM	1851	NH2	ARG	A	120	11.545	-10.973	-8.102	1.00	0.00
ATOM	1852	H	ARG	A	120	5.235	-11.377	-5.996	1.00	0.00
ATOM	1853	HA	ARG	A	120	5.588	-8.609	-5.138	1.00	0.00
ATOM	1854	1HB	ARG	A	120	7.299	-10.334	-4.576	1.00	0.00
ATOM	1855	2HB	ARG	A	120	7.623	-10.523	-6.293	1.00	0.00
ATOM	1856	1HG	ARG	A	120	8.185	-8.064	-6.334	1.00	0.00
ATOM	1857	2HG	ARG	A	120	8.129	-8.115	-4.571	1.00	0.00
ATOM	1858	1HD	ARG	A	120	10.411	-8.379	-5.319	1.00	0.00
ATOM	1859	2HD	ARG	A	120	9.845	-9.884	-4.595	1.00	0.00
ATOM	1860	HE	ARG	A	120	9.356	-10.137	-7.286	1.00	0.00
ATOM	1861	1HH1	ARG	A	120	12.163	-9.577	-5.289	1.00	0.00
ATOM	1862	2HH1	ARG	A	120	13.253	-10.360	-6.383	1.00	0.00
ATOM	1863	1HH2	ARG	A	120	10.788	-11.170	-8.725	1.00	0.00



ATOM	1864	2HH2	ARG	A	120	12.473	-11.265	-8.333	1.00	0.00
ATOM	1865	N	LYS	A	121	5.831	-9.639	-8.259	1.00	0.00
ATOM	1866	CA	LYS	A	121	5.784	-9.198	-9.649	1.00	0.00
ATOM	1867	C	LYS	A	121	4.542	-8.354	-9.911	1.00	0.00
ATOM	1868	O	LYS	A	121	4.572	-7.416	-10.707	1.00	0.00
ATOM	1869	CB	LYS	A	121	5.804	-10.404	-10.591	1.00	0.00
ATOM	1870	CG	LYS	A	121	7.205	-10.852	-10.974	1.00	0.00
ATOM	1871	CD	LYS	A	121	7.187	-11.746	-12.204	1.00	0.00
ATOM	1872	CE	LYS	A	121	8.373	-11.468	-13.112	1.00	0.00
ATOM	1873	NZ	LYS	A	121	9.648	-11.376	-12.348	1.00	0.00
ATOM	1874	H	LYS	A	121	5.863	-10.598	-8.063	1.00	0.00
ATOM	1875	HA	LYS	A	121	6.660	-8.593	-9.834	1.00	0.00
ATOM	1876	1HB	LYS	A	121	5.304	-11.231	-10.108	1.00	0.00
ATOM	1877	2HB	LYS	A	121	5.271	-10.150	-11.494	1.00	0.00
ATOM	1878	1HG	LYS	A	121	7.808	-9.982	-11.184	1.00	0.00
ATOM	1879	2HG	LYS	A	121	7.636	-11.401	-10.148	1.00	0.00
ATOM	1880	1HD	LYS	A	121	7.221	-12.778	-11.888	1.00	0.00
ATOM	1881	2HD	LYS	A	121	6.273	-11.566	-12.753	1.00	0.00
ATOM	1882	1HE	LYS	A	121	8.454	-12.269	-13.833	1.00	0.00
ATOM	1883	2HE	LYS	A	121	8.203	-10.536	-13.629	1.00	0.00
ATOM	1884	1HZ	LYS	A	121	9.585	-11.939	-11.477	1.00	0.00
ATOM	1885	2HZ	LYS	A	121	9.841	-10.386	-12.094	1.00	0.00
ATOM	1886	3HZ	LYS	A	121	10.437	-11.733	-12.924	1.00	0.00
ATOM	1887	N	SER	A	122	3.450	-8.694	-9.235	1.00	0.00
ATOM	1888	CA	SER	A	122	2.197	-7.967	-9.392	1.00	0.00
ATOM	1889	C	SER	A	122	2.305	-6.565	-8.802	1.00	0.00
ATOM	1890	O	SER	A	122	1.654	-5.630	-9.271	1.00	0.00

ATOM 1891	CB	SER A 122	1.052	-8.729	-8.721	1.00	0.00
ATOM 1892	OG	SER A 122	1.226	-8.774	-7.315	1.00	0.00
ATOM 1893	H	SER A 122	3.489	-9.450	-8.612	1.00	0.00
ATOM 1894	HA	SER A 122	1.991	-7.885	-10.449	1.00	0.00
ATOM 1895	1HB	SER A 122	0.117	-8.235	-8.939	1.00	0.00
ATOM 1896	2HB	SER A 122	1.023	-9.739	-9.101	1.00	0.00
ATOM 1897	HG	SER A 122	1.129	-7.891	-6.951	1.00	0.00
ATOM 1898	N	VAL A 123	3.131	-6.425	-7.770	1.00	0.00
ATOM 1899	CA	VAL A 123	3.325	-5.137	-7.116	1.00	0.00
ATOM 1900	C	VAL A 123	4.022	-4.150	-8.045	1.00	0.00
ATOM 1901	O	VAL A 123	5.000	-4.492	-8.710	1.00	0.00
ATOM 1902	CB	VAL A 123	4.153	-5.281	-5.824	1.00	0.00
ATOM 1903	CG1	VAL A 123	4.212	-3.959	-5.075	1.00	0.00
ATOM 1904	CG2	VAL A 123	3.578	-6.377	-4.938	1.00	0.00
ATOM 1905	H	VAL A 123	3.621	-7.207	-7.441	1.00	0.00
ATOM 1906	HA	VAL A 123	2.353	-4.746	-6.854	1.00	0.00
ATOM 1907	HB	VAL A 123	5.161	-5.560	-6.096	1.00	0.00
ATOM 1908	1HG1	VAL A 123	3.361	-3.352	-5.348	1.00	0.00
ATOM 1909	2HG1	VAL A 123	5.123	-3.439	-5.334	1.00	0.00
ATOM 1910	3HG1	VAL A 123	4.194	-4.146	-4.012	1.00	0.00
ATOM 1911	1HG2	VAL A 123	2.934	-7.015	-5.525	1.00	0.00
ATOM 1912	2HG2	VAL A 123	3.009	-5.931	-4.137	1.00	0.00
ATOM 1913	3HG2	VAL A 123	4.384	-6.965	-4.524	1.00	0.00
ATOM 1914	N	PHE A 124	3.511	-2.924	-8.089	1.00	0.00
ATOM 1915	CA	PHE A 124	4.084	-1.886	-8.937	1.00	0.00
ATOM 1916	C	PHE A 124	3.410	-0.542	-8.684	1.00	0.00
ATOM 1917	O	PHE A 124	2.256	-0.485	-8.259	1.00	0.00

ATOM 1918	CB	PHE A 124	3.944	-2.271	-10.412	1.00	0.00
ATOM 1919	CG	PHE A 124	4.853	-1.496	-11.322	1.00	0.00
ATOM 1920	CD1	PHE A 124	4.501	-0.229	-11.759	1.00	0.00
ATOM 1921	CD2	PHE A 124	6.058	-2.035	-11.743	1.00	0.00
ATOM 1922	CE1	PHE A 124	5.336	0.487	-12.598	1.00	0.00
ATOM 1923	CE2	PHE A 124	6.896	-1.325	-12.581	1.00	0.00
ATOM 1924	CZ	PHE A 124	6.535	-0.062	-13.009	1.00	0.00
ATOM 1925	H	PHE A 124	2.729	-2.713	-7.536	1.00	0.00
ATOM 1926	HA	PHE A 124	5.132	-1.802	-8.695	1.00	0.00
ATOM 1927	1HB	PHE A 124	4.174	-3.319	-10.527	1.00	0.00
ATOM 1928	2HB	PHE A 124	2.926	-2.094	-10.727	1.00	0.00
ATOM 1929	HD1	PHE A 124	3.564	0.202	-11.438	1.00	0.00
ATOM 1930	HD2	PHE A 124	6.342	-3.022	-11.408	1.00	0.00
ATOM 1931	HE1	PHE A 124	5.049	1.474	-12.931	1.00	0.00
ATOM 1932	HE2	PHE A 124	7.833	-1.756	-12.900	1.00	0.00
ATOM 1933	HZ	PHE A 124	7.188	0.495	-13.664	1.00	0.00
ATOM 1934	N	VAL A 125	4.137	0.538	-8.948	1.00	0.00
ATOM 1935	CA	VAL A 125	3.609	1.882	-8.749	1.00	0.00
ATOM 1936	C	VAL A 125	4.055	2.816	-9.870	1.00	0.00
ATOM 1937	O	VAL A 125	5.248	3.055	-10.056	1.00	0.00
ATOM 1938	CB	VAL A 125	4.055	2.466	-7.393	1.00	0.00
ATOM 1939	CG1	VAL A 125	5.569	2.616	-7.344	1.00	0.00
ATOM 1940	CG2	VAL A 125	3.367	3.799	-7.130	1.00	0.00
ATOM 1941	H	VAL A 125	5.051	0.428	-9.286	1.00	0.00
ATOM 1942	HA	VAL A 125	2.531	1.820	-8.753	1.00	0.00
ATOM 1943	HB	VAL A 125	3.762	1.776	-6.615	1.00	0.00
ATOM 1944	1HG1	VAL A 125	5.908	2.509	-6.324	1.00	0.00

ATOM	1945	2HG1	VAL	A	125	5.847	3.591	-7.715	1.00	0.00
ATOM	1946	3HG1	VAL	A	125	6.026	1.853	-7.957	1.00	0.00
ATOM	1947	1HG2	VAL	A	125	2.819	4.102	-8.010	1.00	0.00
ATOM	1948	2HG2	VAL	A	125	4.110	4.548	-6.894	1.00	0.00
ATOM	1949	3HG2	VAL	A	125	2.686	3.693	-6.298	1.00	0.00
ATOM	1950	N	ASP	A	126	3.088	3.341	-10.615	1.00	0.00
ATOM	1951	CA	ASP	A	126	3.381	4.249	-11.719	1.00	0.00
ATOM	1952	C	ASP	A	126	2.643	5.573	-11.548	1.00	0.00
ATOM	1953	O	ASP	A	126	1.726	5.683	-10.735	1.00	0.00
ATOM	1954	CB	ASP	A	126	2.991	3.605	-13.052	1.00	0.00
ATOM	1955	CG	ASP	A	126	4.038	3.822	-14.126	1.00	0.00
ATOM	1956	OD1	ASP	A	126	5.228	3.549	-13.860	1.00	0.00
ATOM	1957	OD2	ASP	A	126	3.670	4.265	-15.234	1.00	0.00
ATOM	1958	H	ASP	A	126	2.155	3.113	-10.419	1.00	0.00
ATOM	1959	HA	ASP	A	126	4.444	4.439	-11.719	1.00	0.00
ATOM	1960	1HB	ASP	A	126	2.866	2.543	-12.908	1.00	0.00
ATOM	1961	2HB	ASP	A	126	2.059	4.031	-13.392	1.00	0.00
ATOM	1962	N	SER	A	127	3.050	6.575	-12.320	1.00	0.00
ATOM	1963	CA	SER	A	127	2.427	7.891	-12.255	1.00	0.00
ATOM	1964	C	SER	A	127	0.997	7.841	-12.783	1.00	0.00
ATOM	1965	O	SER	A	127	0.770	7.587	-13.967	1.00	0.00
ATOM	1966	CB	SER	A	127	3.245	8.908	-13.054	1.00	0.00
ATOM	1967	OG	SER	A	127	3.267	8.575	-14.431	1.00	0.00
ATOM	1968	H	SER	A	127	3.786	6.425	-12.950	1.00	0.00
ATOM	1969	HA	SER	A	127	2.405	8.195	-11.219	1.00	0.00
ATOM	1970	1HB	SER	A	127	2.806	9.888	-12.941	1.00	0.00
ATOM	1971	2HB	SER	A	127	4.259	8.922	-12.683	1.00	0.00

ATOM 1972	HG	SER A 127	3.604	9.320	-14.935	1.00	0.00
ATOM 1973	N	GLY A 128	0.036	8.086	-11.897	1.00	0.00
ATOM 1974	CA	GLY A 128	-1.362	8.063	-12.289	1.00	0.00
ATOM 1975	C	GLY A 128	-1.654	8.955	-13.483	1.00	0.00
ATOM 1976	O	GLY A 128	-2.087	8.470	-14.528	1.00	0.00
ATOM 1977	H	GLY A 128	0.279	8.280	-10.969	1.00	0.00
ATOM 1978	1HA	GLY A 128	-1.639	7.049	-12.536	1.00	0.00
ATOM 1979	2HA	GLY A 128	-1.962	8.393	-11.453	1.00	0.00
ATOM 1980	N	PRO A 129	-1.425	10.275	-13.358	1.00	0.00
ATOM 1981	CA	PRO A 129	-1.673	11.225	-14.448	1.00	0.00
ATOM 1982	C	PRO A 129	-0.788	10.960	-15.661	1.00	0.00
ATOM 1983	O	PRO A 129	0.429	11.142	-15.607	1.00	0.00
ATOM 1984	CB	PRO A 129	-1.338	12.587	-13.828	1.00	0.00
ATOM 1985	CG	PRO A 129	-0.456	12.277	-12.668	1.00	0.00
ATOM 1986	CD	PRO A 129	-0.910	10.943	-12.151	1.00	0.00
ATOM 1987	HA	PRO A 129	-2.709	11.212	-14.754	1.00	0.00
ATOM 1988	1HB	PRO A 129	-0.830	13.201	-14.558	1.00	0.00
ATOM 1989	2HB	PRO A 129	-2.249	13.074	-13.512	1.00	0.00
ATOM 1990	1HG	PRO A 129	0.572	12.225	-12.992	1.00	0.00
ATOM 1991	2HG	PRO A 129	-0.573	13.033	-11.906	1.00	0.00
ATOM 1992	1HD	PRO A 129	-0.077	10.396	-11.733	1.00	0.00
ATOM 1993	2HD	PRO A 129	-1.691	11.066	-11.416	1.00	0.00
ATOM 1994	N	SER A 130	-1.406	10.527	-16.754	1.00	0.00
ATOM 1995	CA	SER A 130	-0.676	10.236	-17.982	1.00	0.00
ATOM 1996	C	SER A 130	-1.534	10.527	-19.208	1.00	0.00
ATOM 1997	O	SER A 130	-1.121	11.258	-20.109	1.00	0.00
ATOM 1998	CB	SER A 130	-0.226	8.774	-17.996	1.00	0.00

ATOM	1999	OG	SER A 130	0.117	8.333	-16.693	1.00	0.00
ATOM	2000	H	SER A 130	-2.379	10.402	-16.736	1.00	0.00
ATOM	2001	HA	SER A 130	0.196	10.872	-18.008	1.00	0.00
ATOM	2002	1HB	SER A 130	-1.028	8.156	-18.372	1.00	0.00
ATOM	2003	2HB	SER A 130	0.638	8.672	-18.636	1.00	0.00
ATOM	2004	HG	SER A 130	-0.667	7.997	-16.253	1.00	0.00
ATOM	2005	N	SER A 131	-2.732	9.952	-19.236	1.00	0.00
ATOM	2006	CA	SER A 131	-3.650	10.150	-20.352	1.00	0.00
ATOM	2007	C	SER A 131	-5.064	9.717	-19.977	1.00	0.00
ATOM	2008	O	SER A 131	-5.266	8.640	-19.417	1.00	0.00
ATOM	2009	CB	SER A 131	-3.173	9.368	-21.577	1.00	0.00
ATOM	2010	OG	SER A 131	-3.450	7.985	-21.440	1.00	0.00
ATOM	2011	H	SER A 131	-3.005	9.380	-18.488	1.00	0.00
ATOM	2012	HA	SER A 131	-3.660	11.203	-20.590	1.00	0.00
ATOM	2013	1HB	SER A 131	-3.678	9.737	-22.457	1.00	0.00
ATOM	2014	2HB	SER A 131	-2.107	9.500	-21.693	1.00	0.00
ATOM	2015	HG	SER A 131	-3.653	7.612	-22.301	1.00	0.00
ATOM	2016	N	GLY A 132	-6.039	10.564	-20.290	1.00	0.00
ATOM	2017	CA	GLY A 132	-7.422	10.251	-19.978	1.00	0.00
ATOM	2018	C	GLY A 132	-7.897	10.929	-18.708	1.00	0.00
ATOM	2019	H	GLY A 132	-5.818	11.409	-20.735	1.00	0.00
ATOM	2020	1HA	GLY A 132	-8.046	10.571	-20.800	1.00	0.00
ATOM	2021	2HA	GLY A 132	-7.520	9.182	-19.860	1.00	0.00
TER	2022		GLY A 132					

ENDMDL

Three-Dimensional Structure Coordinate 12

ATOM 1	N	GLY A	1	-2.445	26.578	-3.078	1.00	0.00
ATOM 2	CA	GLY A	1	-2.805	27.427	-1.910	1.00	0.00
ATOM 3	C	GLY A	1	-3.814	28.503	-2.263	1.00	0.00
ATOM 4	O	GLY A	1	-4.203	28.640	-3.422	1.00	0.00
ATOM 5	1H	GLY A	1	-3.143	25.814	-3.193	1.00	0.00
ATOM 6	2H	GLY A	1	-1.506	26.155	-2.937	1.00	0.00
ATOM 7	3H	GLY A	1	-2.428	27.151	-3.945	1.00	0.00
ATOM 8	1HA	GLY A	1	-3.222	26.800	-1.136	1.00	0.00
ATOM 9	2HA	GLY A	1	-1.911	27.899	-1.531	1.00	0.00
ATOM 10	N	SER A	2	-4.238	29.267	-1.260	1.00	0.00
ATOM 11	CA	SER A	2	-5.209	30.338	-1.465	1.00	0.00
ATOM 12	C	SER A	2	-6.575	29.772	-1.837	1.00	0.00
ATOM 13	O	SER A	2	-7.514	29.822	-1.042	1.00	0.00
ATOM 14	CB	SER A	2	-4.725	31.297	-2.556	1.00	0.00
ATOM 15	OG	SER A	2	-4.947	32.647	-2.185	1.00	0.00
ATOM 16	H	SER A	2	-3.888	29.107	-0.358	1.00	0.00
ATOM 17	HA	SER A	2	-5.300	30.882	-0.538	1.00	0.00
ATOM 18	1HB	SER A	2	-3.667	31.152	-2.718	1.00	0.00
ATOM 19	2HB	SER A	2	-5.259	31.097	-3.474	1.00	0.00
ATOM 20	HG	SER A	2	-4.651	32.784	-1.282	1.00	0.00
ATOM 21	N	SER A	3	-6.681	29.233	-3.048	1.00	0.00
ATOM 22	CA	SER A	3	-7.934	28.658	-3.522	1.00	0.00
ATOM 23	C	SER A	3	-7.790	27.158	-3.755	1.00	0.00
ATOM 24	O	SER A	3	-8.413	26.350	-3.064	1.00	0.00
ATOM 25	CB	SER A	3	-8.377	29.346	-4.815	1.00	0.00
ATOM 26	OG	SER A	3	-9.785	29.504	-4.852	1.00	0.00
ATOM 27	H	SER A	3	-5.897	29.223	-3.636	1.00	0.00

ATOM 28	HA	SER A	3	-8.684	28.823	-2.763	1.00	0.00
ATOM 29	1HB	SER A	3	-7.917	30.321	-4.879	1.00	0.00
ATOM 30	2HB	SER A	3	-8.072	28.748	-5.662	1.00	0.00
ATOM 31	HG	SER A	3	-10.035	30.271	-4.332	1.00	0.00
ATOM 32	N	GLY A	4	-6.964	26.792	-4.729	1.00	0.00
ATOM 33	CA	GLY A	4	-6.753	25.388	-5.034	1.00	0.00
ATOM 34	C	GLY A	4	-7.543	24.932	-6.245	1.00	0.00
ATOM 35	O	GLY A	4	-7.192	25.257	-7.380	1.00	0.00
ATOM 36	H	GLY A	4	-6.494	27.479	-5.245	1.00	0.00
ATOM 37	1HA	GLY A	4	-5.702	25.226	-5.221	1.00	0.00
ATOM 38	2HA	GLY A	4	-7.051	24.797	-4.180	1.00	0.00
ATOM 39	N	SER A	5	-8.611	24.178	-6.003	1.00	0.00
ATOM 40	CA	SER A	5	-9.458	23.674	-7.079	1.00	0.00
ATOM 41	C	SER A	5	-8.678	22.733	-7.994	1.00	0.00
ATOM 42	O	SER A	5	-8.786	21.512	-7.881	1.00	0.00
ATOM 43	CB	SER A	5	-10.039	24.834	-7.890	1.00	0.00
ATOM 44	OG	SER A	5	-10.975	25.574	-7.125	1.00	0.00
ATOM 45	H	SER A	5	-8.836	23.956	-5.075	1.00	0.00
ATOM 46	HA	SER A	5	-10.269	23.122	-6.627	1.00	0.00
ATOM 47	1HB	SER A	5	-9.241	25.495	-8.194	1.00	0.00
ATOM 48	2HB	SER A	5	-10.537	24.445	-8.766	1.00	0.00
ATOM 49	HG	SER A	5	-10.849	26.512	-7.284	1.00	0.00
ATOM 50	N	SER A	6	-7.892	23.307	-8.899	1.00	0.00
ATOM 51	CA	SER A	6	-7.096	22.517	-9.832	1.00	0.00
ATOM 52	C	SER A	6	-6.010	21.737	-9.096	1.00	0.00
ATOM 53	O	SER A	6	-5.860	21.859	-7.880	1.00	0.00
ATOM 54	CB	SER A	6	-6.460	23.423	-10.887	1.00	0.00



ATOM 55	OG	SER A	6	-7.304	24.520	-11.193	1.00	0.00
ATOM 56	H	SER A	6	-7.846	24.285	-8.941	1.00	0.00
ATOM 57	HA	SER A	6	-7.757	21.817	-10.321	1.00	0.00
ATOM 58	1HB	SER A	6	-5.520	23.801	-10.516	1.00	0.00
ATOM 59	2HB	SER A	6	-6.289	22.854	-11.790	1.00	0.00
ATOM 60	HG	SER A	6	-8.004	24.230	-11.782	1.00	0.00
ATOM 61	N	GLY A	7	-5.257	20.935	-9.842	1.00	0.00
ATOM 62	CA	GLY A	7	-4.196	20.147	-9.243	1.00	0.00
ATOM 63	C	GLY A	7	-3.089	19.823	-10.227	1.00	0.00
ATOM 64	O	GLY A	7	-2.807	18.655	-10.493	1.00	0.00
ATOM 65	H	GLY A	7	-5.424	20.879	-10.806	1.00	0.00
ATOM 66	1HA	GLY A	7	-3.777	20.698	-8.414	1.00	0.00
ATOM 67	2HA	GLY A	7	-4.615	19.222	-8.873	1.00	0.00
ATOM 68	N	SER A	8	-2.459	20.861	-10.768	1.00	0.00
ATOM 69	CA	SER A	8	-1.377	20.683	-11.729	1.00	0.00
ATOM 70	C	SER A	8	-0.025	20.637	-11.024	1.00	0.00
ATOM 71	O	SER A	8	0.814	19.788	-11.322	1.00	0.00
ATOM 72	CB	SER A	8	-1.389	21.813	-12.759	1.00	0.00
ATOM 73	OG	SER A	8	-2.581	21.793	-13.527	1.00	0.00
ATOM 74	H	SER A	8	-2.730	21.769	-10.516	1.00	0.00
ATOM 75	HA	SER A	8	-1.536	19.743	-12.237	1.00	0.00
ATOM 76	1HB	SER A	8	-1.322	22.763	-12.250	1.00	0.00
ATOM 77	2HB	SER A	8	-0.546	21.701	-13.424	1.00	0.00
ATOM 78	HG	SER A	8	-3.340	21.783	-12.940	1.00	0.00
ATOM 79	N	SER A	9	0.178	21.557	-10.086	1.00	0.00
ATOM 80	CA	SER A	9	1.428	21.622	-9.337	1.00	0.00
ATOM 81	C	SER A	9	1.168	21.539	-7.835	1.00	0.00

ATOM 82	O	SER A	9	1.747	22.292	-7.052	1.00	0.00
ATOM 83	CB	SER A	9	2.177	22.914	-9.668	1.00	0.00
ATOM 84	OG	SER A	9	1.997	23.275	-11.027	1.00	0.00
ATOM 85	H	SER A	9	-0.529	22.207	-9.892	1.00	0.00
ATOM 86	HA	SER A	9	2.035	20.779	-9.632	1.00	0.00
ATOM 87	1HB	SER A	9	1.806	23.713	-9.044	1.00	0.00
ATOM 88	2HB	SER A	9	3.233	22.773	-9.483	1.00	0.00
ATOM 89	HG	SER A	9	2.646	23.939	-11.271	1.00	0.00
ATOM 90	N	SER A	10	0.294	20.619	-7.442	1.00	0.00
ATOM 91	CA	SER A	10	-0.044	20.438	-6.034	1.00	0.00
ATOM 92	C	SER A	10	-0.102	18.957	-5.675	1.00	0.00
ATOM 93	O	SER A	10	-1.052	18.259	-6.028	1.00	0.00
ATOM 94	CB	SER A	10	-1.384	21.105	-5.719	1.00	0.00
ATOM 95	OG	SER A	10	-1.272	22.517	-5.755	1.00	0.00
ATOM 96	H	SER A	10	-0.135	20.048	-8.113	1.00	0.00
ATOM 97	HA	SER A	10	0.729	20.909	-5.446	1.00	0.00
ATOM 98	1HB	SER A	10	-2.117	20.796	-6.450	1.00	0.00
ATOM 99	2HB	SER A	10	-1.709	20.806	-4.734	1.00	0.00
ATOM 100	HG	SER A	10	-0.472	22.786	-5.297	1.00	0.00
ATOM 101	N	SER A	11	0.921	18.484	-4.969	1.00	0.00
ATOM 102	CA	SER A	11	0.986	17.085	-4.561	1.00	0.00
ATOM 103	C	SER A	11	1.026	16.164	-5.776	1.00	0.00
ATOM 104	O	SER A	11	0.863	16.610	-6.912	1.00	0.00
ATOM 105	CB	SER A	11	-0.212	16.731	-3.678	1.00	0.00
ATOM 106	OG	SER A	11	-0.288	17.590	-2.552	1.00	0.00
ATOM 107	H	SER A	11	1.649	19.089	-4.718	1.00	0.00
ATOM 108	HA	SER A	11	1.893	16.949	-3.992	1.00	0.00

ATOM 109	1HB	SER A	11	-1.121	16.830	-4.252	1.00	0.00
ATOM 110	2HB	SER A	11	-0.113	15.713	-3.332	1.00	0.00
ATOM 111	N	GLN A	12	1.244	14.877	-5.529	1.00	0.00
ATOM 112	CA	GLN A	12	1.306	13.893	-6.603	1.00	0.00
ATOM 113	C	GLN A	12	0.507	12.644	-6.248	1.00	0.00
ATOM 114	O	GLN A	12	0.328	12.322	-5.072	1.00	0.00
ATOM 115	CB	GLN A	12	2.760	13.517	-6.895	1.00	0.00
ATOM 116	CG	GLN A	12	3.561	13.180	-5.648	1.00	0.00
ATOM 117	CD	GLN A	12	4.572	14.254	-5.296	1.00	0.00
ATOM 118	OE1	GLN A	12	4.206	15.363	-4.906	1.00	0.00
ATOM 119	NE2	GLN A	12	5.853	13.930	-5.433	1.00	0.00
ATOM 120	H	GLN A	12	1.367	14.581	-4.603	1.00	0.00
ATOM 121	HA	GLN A	12	0.877	14.340	-7.487	1.00	0.00
ATOM 122	1HB	GLN A	12	2.772	12.657	-7.548	1.00	0.00
ATOM 123	2HB	GLN A	12	3.240	14.345	-7.394	1.00	0.00
ATOM 124	1HG	GLN A	12	2.881	13.062	-4.818	1.00	0.00
ATOM 125	2HG	GLN A	12	4.089	12.252	-5.814	1.00	0.00
ATOM 126	1HE2	GLN A	12	6.070	13.029	-5.749	1.00	0.00
ATOM 127	2HE2	GLN A	12	6.527	14.606	-5.212	1.00	0.00
ATOM 128	N	HIS A	13	0.031	11.945	-7.273	1.00	0.00
ATOM 129	CA	HIS A	13	-0.750	10.729	-7.075	1.00	0.00
ATOM 130	C	HIS A	13	-0.126	9.558	-7.827	1.00	0.00
ATOM 131	O	HIS A	13	-0.216	9.476	-9.052	1.00	0.00
ATOM 132	CB	HIS A	13	-2.191	10.941	-7.540	1.00	0.00
ATOM 133	CG	HIS A	13	-2.926	11.984	-6.759	1.00	0.00
ATOM 134	ND1	HIS A	13	-4.171	11.773	-6.204	1.00	0.00
ATOM 135	CD2	HIS A	13	-2.586	13.257	-6.440	1.00	0.00

ATOM 136	CE1	HIS A	13	-4.564	12.868	-5.578	1.00	0.00
ATOM 137	NE2	HIS A	13	-3.621	13.782	-5.706	1.00	0.00
ATOM 138	H	HIS A	13	0.209	12.253	-8.185	1.00	0.00
ATOM 139	HA	HIS A	13	-0.751	10.503	-6.018	1.00	0.00
ATOM 140	1HB	HIS A	13	-2.186	11.245	-8.576	1.00	0.00
ATOM 141	2HB	HIS A	13	-2.733	10.010	-7.448	1.00	0.00
ATOM 142	HD1	HIS A	13	-4.689	10.943	-6.260	1.00	0.00
ATOM 143	HD2	HIS A	13	-1.671	13.763	-6.713	1.00	0.00
ATOM 144	HE1	HIS A	13	-5.498	12.994	-5.051	1.00	0.00
ATOM 145	HE2	HIS A	13	-3.690	14.712	-5.405	1.00	0.00
ATOM 146	N	PHE A	14	0.507	8.652	-7.088	1.00	0.00
ATOM 147	CA	PHE A	14	1.146	7.487	-7.689	1.00	0.00
ATOM 148	C	PHE A	14	0.215	6.279	-7.658	1.00	0.00
ATOM 149	O	PHE A	14	-0.027	5.697	-6.602	1.00	0.00
ATOM 150	CB	PHE A	14	2.450	7.162	-6.960	1.00	0.00
ATOM 151	CG	PHE A	14	3.622	7.967	-7.444	1.00	0.00
ATOM 152	CD1	PHE A	14	4.032	7.894	-8.765	1.00	0.00
ATOM 153	CD2	PHE A	14	4.314	8.799	-6.577	1.00	0.00
ATOM 154	CE1	PHE A	14	5.109	8.634	-9.214	1.00	0.00
ATOM 155	CE2	PHE A	14	5.392	9.541	-7.019	1.00	0.00
ATOM 156	CZ	PHE A	14	5.790	9.458	-8.340	1.00	0.00
ATOM 157	H	PHE A	14	0.546	8.771	-6.116	1.00	0.00
ATOM 158	HA	PHE A	14	1.370	7.727	-8.718	1.00	0.00
ATOM 159	1HB	PHE A	14	2.324	7.359	-5.905	1.00	0.00
ATOM 160	2HB	PHE A	14	2.683	6.117	-7.101	1.00	0.00
ATOM 161	HD1	PHE A	14	3.499	7.249	-9.449	1.00	0.00
ATOM 162	HD2	PHE A	14	4.004	8.863	-5.545	1.00	0.00

ATOM 163	HE1	PHE	A	14	5.418	8.567	-10.246	1.00	0.00
ATOM 164	HE2	PHE	A	14	5.923	10.184	-6.334	1.00	0.00
ATOM 165	HZ	PHE	A	14	6.633	10.037	-8.689	1.00	0.00
ATOM 166	N	ASN	A	15	-0.303	5.909	-8.825	1.00	0.00
ATOM 167	CA	ASN	A	15	-1.211	4.771	-8.936	1.00	0.00
ATOM 168	C	ASN	A	15	-0.591	3.512	-8.336	1.00	0.00
ATOM 169	O	ASN	A	15	0.383	2.976	-8.864	1.00	0.00
ATOM 170	CB	ASN	A	15	-1.575	4.525	-10.401	1.00	0.00
ATOM 171	CG	ASN	A	15	-3.036	4.162	-10.580	1.00	0.00
ATOM 172	OD1	ASN	A	15	-3.458	3.055	-10.247	1.00	0.00
ATOM 173	ND2	ASN	A	15	-3.816	5.097	-11.110	1.00	0.00
ATOM 174	H	ASN	A	15	-0.073	6.415	-9.632	1.00	0.00
ATOM 175	HA	ASN	A	15	-2.109	5.010	-8.386	1.00	0.00
ATOM 176	1HB	ASN	A	15	-1.374	5.419	-10.971	1.00	0.00
ATOM 177	2HB	ASN	A	15	-0.971	3.716	-10.785	1.00	0.00
ATOM 178	1HD2	ASN	A	15	-3.411	5.956	-11.352	1.00	0.00
ATOM 179	2HD2	ASN	A	15	-4.765	4.889	-11.238	1.00	0.00
ATOM 180	N	LEU	A	16	-1.166	3.043	-7.233	1.00	0.00
ATOM 181	CA	LEU	A	16	-0.674	1.845	-6.565	1.00	0.00
ATOM 182	C	LEU	A	16	-1.508	0.630	-6.955	1.00	0.00
ATOM 183	O	LEU	A	16	-2.734	0.648	-6.849	1.00	0.00
ATOM 184	CB	LEU	A	16	-0.704	2.033	-5.048	1.00	0.00
ATOM 185	CG	LEU	A	16	0.205	1.087	-4.261	1.00	0.00
ATOM 186	CD1	LEU	A	16	1.668	1.379	-4.564	1.00	0.00
ATOM 187	CD2	LEU	A	16	-0.069	1.206	-2.769	1.00	0.00
ATOM 188	H	LEU	A	16	-1.943	3.512	-6.862	1.00	0.00
ATOM 189	HA	LEU	A	16	0.346	1.685	-6.881	1.00	0.00

ATOM 190	1HB	LEU	A	16	-0.411	3.049	-4.826	1.00	0.00
ATOM 191	2HB	LEU	A	16	-1.718	1.886	-4.707	1.00	0.00
ATOM 192	HG	LEU	A	16	0.000	0.069	-4.561	1.00	0.00
ATOM 193	1HD1	LEU	A	16	1.746	2.312	-5.104	1.00	0.00
ATOM 194	2HD1	LEU	A	16	2.078	0.580	-5.165	1.00	0.00
ATOM 195	3HD1	LEU	A	16	2.220	1.453	-3.639	1.00	0.00
ATOM 196	1HD2	LEU	A	16	-1.082	0.891	-2.564	1.00	0.00
ATOM 197	2HD2	LEU	A	16	0.059	2.233	-2.460	1.00	0.00
ATOM 198	3HD2	LEU	A	16	0.621	0.577	-2.225	1.00	0.00
ATOM 199	N	ASN	A	17	-0.838	-0.424	-7.407	1.00	0.00
ATOM 200	CA	ASN	A	17	-1.524	-1.644	-7.813	1.00	0.00
ATOM 201	C	ASN	A	17	-0.678	-2.877	-7.513	1.00	0.00
ATOM 202	O	ASN	A	17	0.530	-2.887	-7.747	1.00	0.00
ATOM 203	CB	ASN	A	17	-1.861	-1.592	-9.304	1.00	0.00
ATOM 204	CG	ASN	A	17	-2.804	-0.453	-9.644	1.00	0.00
ATOM 205	OD1	ASN	A	17	-3.998	-0.663	-9.856	1.00	0.00
ATOM 206	ND2	ASN	A	17	-2.269	0.762	-9.697	1.00	0.00
ATOM 207	H	ASN	A	17	0.140	-0.380	-7.471	1.00	0.00
ATOM 208	HA	ASN	A	17	-2.442	-1.708	-7.249	1.00	0.00
ATOM 209	1HB	ASN	A	17	-0.950	-1.460	-9.868	1.00	0.00
ATOM 210	2HB	ASN	A	17	-2.329	-2.522	-9.594	1.00	0.00
ATOM 211	1HD2	ASN	A	17	-1.310	0.854	-9.516	1.00	0.00
ATOM 212	2HD2	ASN	A	17	-2.855	1.516	-9.915	1.00	0.00
ATOM 213	N	PHE	A	18	-1.325	-3.917	-6.998	1.00	0.00
ATOM 214	CA	PHE	A	18	-0.639	-5.161	-6.668	1.00	0.00
ATOM 215	C	PHE	A	18	-1.642	-6.262	-6.340	1.00	0.00
ATOM 216	O	PHE	A	18	-2.518	-6.086	-5.493	1.00	0.00

ATOM 217	CB	PHE A	18	0.315	-4.950	-5.491	1.00	0.00
ATOM 218	CG	PHE A	18	-0.344	-4.366	-4.274	1.00	0.00
ATOM 219	CD1	PHE A	18	-0.640	-5.162	-3.179	1.00	0.00
ATOM 220	CD2	PHE A	18	-0.667	-3.020	-4.226	1.00	0.00
ATOM 221	CE1	PHE A	18	-1.245	-4.625	-2.058	1.00	0.00
ATOM 222	CE2	PHE A	18	-1.273	-2.477	-3.108	1.00	0.00
ATOM 223	CZ	PHE A	18	-1.562	-3.281	-2.023	1.00	0.00
ATOM 224	H	PHE A	18	-2.291	-3.847	-6.838	1.00	0.00
ATOM 225	HA	PHE A	18	-0.067	-5.461	-7.533	1.00	0.00
ATOM 226	1HB	PHE A	18	0.744	-5.901	-5.210	1.00	0.00
ATOM 227	2HB	PHE A	18	1.107	-4.281	-5.794	1.00	0.00
ATOM 228	HD1	PHE A	18	-0.391	-6.214	-3.205	1.00	0.00
ATOM 229	HD2	PHE A	18	-0.442	-2.390	-5.074	1.00	0.00
ATOM 230	HE1	PHE A	18	-1.470	-5.257	-1.212	1.00	0.00
ATOM 231	HE2	PHE A	18	-1.520	-1.426	-3.084	1.00	0.00
ATOM 232	HZ	PHE A	18	-2.035	-2.860	-1.149	1.00	0.00
ATOM 233	N	THR A	19	-1.513	-7.396	-7.022	1.00	0.00
ATOM 234	CA	THR A	19	-2.411	-8.525	-6.811	1.00	0.00
ATOM 235	C	THR A	19	-2.154	-9.190	-5.461	1.00	0.00
ATOM 236	O	THR A	19	-1.014	-9.505	-5.119	1.00	0.00
ATOM 237	CB	THR A	19	-2.244	-9.551	-7.934	1.00	0.00
ATOM 238	OG1	THR A	19	-2.321	-8.922	-9.201	1.00	0.00
ATOM 239	CG2	THR A	19	-3.284	-10.648	-7.901	1.00	0.00
ATOM 240	H	THR A	19	-0.797	-7.472	-7.688	1.00	0.00
ATOM 241	HA	THR A	19	-3.422	-8.151	-6.826	1.00	0.00
ATOM 242	HB	THR A	19	-1.272	-10.013	-7.843	1.00	0.00
ATOM 243	HG1	THR A	19	-3.065	-8.316	-9.213	1.00	0.00

ATOM 244	1HG2	THR	A	19	-4.260	-10.215	-7.734	1.00	0.00
ATOM 245	2HG2	THR	A	19	-3.056	-11.338	-7.102	1.00	0.00
ATOM 246	3HG2	THR	A	19	-3.282	-11.175	-8.844	1.00	0.00
ATOM 247	N	ILE	A	20	-3.224	-9.404	-4.701	1.00	0.00
ATOM 248	CA	ILE	A	20	-3.118	-10.037	-3.392	1.00	0.00
ATOM 249	C	ILE	A	20	-3.674	-11.458	-3.425	1.00	0.00
ATOM 250	O	ILE	A	20	-4.888	-11.660	-3.407	1.00	0.00
ATOM 251	CB	ILE	A	20	-3.869	-9.230	-2.313	1.00	0.00
ATOM 252	CG1	ILE	A	20	-3.410	-7.771	-2.323	1.00	0.00
ATOM 253	CG2	ILE	A	20	-3.649	-9.847	-0.939	1.00	0.00
ATOM 254	CD1	ILE	A	20	-4.179	-6.891	-1.362	1.00	0.00
ATOM 255	H	ILE	A	20	-4.106	-9.133	-5.031	1.00	0.00
ATOM 256	HA	ILE	A	20	-2.073	-10.075	-3.123	1.00	0.00
ATOM 257	HB	ILE	A	20	-4.924	-9.269	-2.534	1.00	0.00
ATOM 258	1HG1	ILE	A	20	-2.367	-7.726	-2.049	1.00	0.00
ATOM 259	2HG1	ILE	A	20	-3.534	-7.368	-3.317	1.00	0.00
ATOM 260	1HG2	ILE	A	20	-4.243	-9.319	-0.208	1.00	0.00
ATOM 261	2HG2	ILE	A	20	-2.605	-9.776	-0.674	1.00	0.00
ATOM 262	3HG2	ILE	A	20	-3.944	-10.886	-0.961	1.00	0.00
ATOM 263	1HD1	ILE	A	20	-4.378	-7.437	-0.453	1.00	0.00
ATOM 264	2HD1	ILE	A	20	-5.115	-6.594	-1.816	1.00	0.00
ATOM 265	3HD1	ILE	A	20	-3.596	-6.011	-1.134	1.00	0.00
ATOM 266	N	THR	A	21	-2.777	-12.438	-3.475	1.00	0.00
ATOM 267	CA	THR	A	21	-3.179	-13.839	-3.510	1.00	0.00
ATOM 268	C	THR	A	21	-3.970	-14.217	-2.261	1.00	0.00
ATOM 269	O	THR	A	21	-4.756	-15.164	-2.276	1.00	0.00
ATOM 270	CB	THR	A	21	-1.950	-14.740	-3.639	1.00	0.00



ATOM 271	OG1	THR	A	21	-1.184	-14.719	-2.448	1.00	0.00
ATOM 272	CG2	THR	A	21	-1.036	-14.344	-4.779	1.00	0.00
ATOM 273	H	THR	A	21	-1.825	-12.213	-3.488	1.00	0.00
ATOM 274	HA	THR	A	21	-3.808	-13.981	-4.375	1.00	0.00
ATOM 275	HB	THR	A	21	-2.277	-15.755	-3.815	1.00	0.00
ATOM 276	HG1	THR	A	21	-1.570	-15.322	-1.808	1.00	0.00
ATOM 277	1HG2	THR	A	21	-0.786	-15.218	-5.361	1.00	0.00
ATOM 278	2HG2	THR	A	21	-0.132	-13.908	-4.380	1.00	0.00
ATOM 279	3HG2	THR	A	21	-1.537	-13.624	-5.408	1.00	0.00
ATOM 280	N	ASN	A	22	-3.759	-13.471	-1.179	1.00	0.00
ATOM 281	CA	ASN	A	22	-4.455	-13.732	0.075	1.00	0.00
ATOM 282	C	ASN	A	22	-5.784	-12.983	0.125	1.00	0.00
ATOM 283	O	ASN	A	22	-6.057	-12.243	1.071	1.00	0.00
ATOM 284	CB	ASN	A	22	-3.578	-13.326	1.261	1.00	0.00
ATOM 285	CG	ASN	A	22	-3.833	-14.182	2.488	1.00	0.00
ATOM 286	OD1	ASN	A	22	-4.096	-15.379	2.379	1.00	0.00
ATOM 287	ND2	ASN	A	22	-3.755	-13.569	3.663	1.00	0.00
ATOM 288	H	ASN	A	22	-3.121	-12.729	-1.226	1.00	0.00
ATOM 289	HA	ASN	A	22	-4.650	-14.793	0.130	1.00	0.00
ATOM 290	1HB	ASN	A	22	-2.539	-13.428	0.985	1.00	0.00
ATOM 291	2HB	ASN	A	22	-3.779	-12.297	1.515	1.00	0.00
ATOM 292	1HD2	ASN	A	22	-3.539	-12.613	3.674	1.00	0.00
ATOM 293	2HD2	ASN	A	22	-3.915	-14.098	4.472	1.00	0.00
ATOM 294	N	LEU	A	23	-6.607	-13.182	-0.899	1.00	0.00
ATOM 295	CA	LEU	A	23	-7.907	-12.527	-0.972	1.00	0.00
ATOM 296	C	LEU	A	23	-8.723	-13.065	-2.149	1.00	0.00
ATOM 297	O	LEU	A	23	-8.563	-12.612	-3.281	1.00	0.00

ATOM 298	CB	LEU A	23	-7.731	-11.014	-1.111	1.00	0.00
ATOM 299	CG	LEU A	23	-8.871	-10.173	-0.534	1.00	0.00
ATOM 300	CD1	LEU A	23	-10.139	-10.356	-1.355	1.00	0.00
ATOM 301	CD2	LEU A	23	-9.120	-10.541	0.922	1.00	0.00
ATOM 302	H	LEU A	23	-6.334	-13.784	-1.622	1.00	0.00
ATOM 303	HA	LEU A	23	-8.436	-12.736	-0.056	1.00	0.00
ATOM 304	1HB	LEU A	23	-6.815	-10.733	-0.611	1.00	0.00
ATOM 305	2HB	LEU A	23	-7.635	-10.777	-2.160	1.00	0.00
ATOM 306	HG	LEU A	23	-8.597	-9.129	-0.574	1.00	0.00
ATOM 307	1HD1	LEU A	23	-9.876	-10.665	-2.356	1.00	0.00
ATOM 308	2HD1	LEU A	23	-10.679	-9.422	-1.397	1.00	0.00
ATOM 309	3HD1	LEU A	23	-10.760	-11.112	-0.896	1.00	0.00
ATOM 310	1HD2	LEU A	23	-8.175	-10.633	1.436	1.00	0.00
ATOM 311	2HD2	LEU A	23	-9.650	-11.480	0.971	1.00	0.00
ATOM 312	3HD2	LEU A	23	-9.712	-9.769	1.391	1.00	0.00
ATOM 313	N	PRO A	24	-9.611	-14.044	-1.895	1.00	0.00
ATOM 314	CA	PRO A	24	-10.448	-14.638	-2.943	1.00	0.00
ATOM 315	C	PRO A	24	-11.494	-13.662	-3.470	1.00	0.00
ATOM 316	O	PRO A	24	-12.232	-13.050	-2.699	1.00	0.00
ATOM 317	CB	PRO A	24	-11.123	-15.815	-2.236	1.00	0.00
ATOM 318	CG	PRO A	24	-11.123	-15.444	-0.794	1.00	0.00
ATOM 319	CD	PRO A	24	-9.869	-14.646	-0.574	1.00	0.00
ATOM 320	HA	PRO A	24	-9.851	-15.002	-3.766	1.00	0.00
ATOM 321	1HB	PRO A	24	-12.129	-15.937	-2.614	1.00	0.00
ATOM 322	2HB	PRO A	24	-10.556	-16.718	-2.411	1.00	0.00
ATOM 323	1HG	PRO A	24	-11.993	-14.846	-0.569	1.00	0.00
ATOM 324	2HG	PRO A	24	-11.111	-16.336	-0.186	1.00	0.00

ATOM 325	1HD	PRO A	24	-10.034	-13.883	0.173	1.00	0.00
ATOM 326	2HD	PRO A	24	-9.056	-15.293	-0.281	1.00	0.00
ATOM 327	N	TYR A	25	-11.550	-13.522	-4.791	1.00	0.00
ATOM 328	CA	TYR A	25	-12.506	-12.619	-5.423	1.00	0.00
ATOM 329	C	TYR A	25	-13.886	-13.263	-5.510	1.00	0.00
ATOM 330	O	TYR A	25	-14.063	-14.289	-6.165	1.00	0.00
ATOM 331	CB	TYR A	25	-12.025	-12.229	-6.821	1.00	0.00
ATOM 332	CG	TYR A	25	-12.507	-10.869	-7.270	1.00	0.00
ATOM 333	CD1	TYR A	25	-12.085	-9.713	-6.626	1.00	0.00
ATOM 334	CD2	TYR A	25	-13.387	-10.740	-8.337	1.00	0.00
ATOM 335	CE1	TYR A	25	-12.523	-8.467	-7.033	1.00	0.00
ATOM 336	CE2	TYR A	25	-13.831	-9.498	-8.751	1.00	0.00
ATOM 337	CZ	TYR A	25	-13.396	-8.367	-8.095	1.00	0.00
ATOM 338	OH	TYR A	25	-13.835	-7.128	-8.505	1.00	0.00
ATOM 339	H	TYR A	25	-10.936	-14.037	-5.354	1.00	0.00
ATOM 340	HA	TYR A	25	-12.574	-11.730	-4.814	1.00	0.00
ATOM 341	1HB	TYR A	25	-10.946	-12.218	-6.831	1.00	0.00
ATOM 342	2HB	TYR A	25	-12.379	-12.960	-7.532	1.00	0.00
ATOM 343	HD1	TYR A	25	-11.400	-9.796	-5.794	1.00	0.00
ATOM 344	HD2	TYR A	25	-13.726	-11.629	-8.848	1.00	0.00
ATOM 345	HE1	TYR A	25	-12.182	-7.581	-6.520	1.00	0.00
ATOM 346	HE2	TYR A	25	-14.514	-9.420	-9.584	1.00	0.00
ATOM 347	HH	TYR A	25	-13.112	-6.653	-8.920	1.00	0.00
ATOM 348	N	SER A	26	-14.861	-12.650	-4.847	1.00	0.00
ATOM 349	CA	SER A	26	-16.226	-13.162	-4.851	1.00	0.00
ATOM 350	C	SER A	26	-17.215	-12.068	-5.243	1.00	0.00
ATOM 351	O	SER A	26	-16.832	-10.916	-5.449	1.00	0.00

ATOM 352	CB	SER A	26	-16.586	-13.722	-3.474	1.00	0.00
ATOM 353	OG	SER A	26	-15.453	-14.291	-2.843	1.00	0.00
ATOM 354	H	SER A	26	-14.658	-11.834	-4.343	1.00	0.00
ATOM 355	HA	SER A	26	-16.280	-13.957	-5.579	1.00	0.00
ATOM 356	1HB	SER A	26	-16.966	-12.926	-2.851	1.00	0.00
ATOM 357	2HB	SER A	26	-17.342	-14.485	-3.584	1.00	0.00
ATOM 358	HG	SER A	26	-14.824	-13.599	-2.627	1.00	0.00
ATOM 359	N	GLN A	27	-18.488	-12.437	-5.346	1.00	0.00
ATOM 360	CA	GLN A	27	-19.530	-11.487	-5.713	1.00	0.00
ATOM 361	C	GLN A	27	-19.608	-10.347	-4.703	1.00	0.00
ATOM 362	O	GLN A	27	-19.954	-9.218	-5.052	1.00	0.00
ATOM 363	CB	GLN A	27	-20.884	-12.194	-5.807	1.00	0.00
ATOM 364	CG	GLN A	27	-21.175	-12.769	-7.183	1.00	0.00
ATOM 365	CD	GLN A	27	-22.587	-13.309	-7.302	1.00	0.00
ATOM 366	OE1	GLN A	27	-23.114	-13.912	-6.367	1.00	0.00
ATOM 367	NE2	GLN A	27	-23.207	-13.094	-8.456	1.00	0.00
ATOM 368	H	GLN A	27	-18.730	-13.369	-5.170	1.00	0.00
ATOM 369	HA	GLN A	27	-19.280	-11.078	-6.681	1.00	0.00
ATOM 370	1HB	GLN A	27	-20.905	-13.002	-5.090	1.00	0.00
ATOM 371	2HB	GLN A	27	-21.664	-11.488	-5.564	1.00	0.00
ATOM 372	1HG	GLN A	27	-21.040	-11.991	-7.921	1.00	0.00
ATOM 373	2HG	GLN A	27	-20.479	-13.572	-7.378	1.00	0.00
ATOM 374	1HE2	GLN A	27	-22.727	-12.606	-9.157	1.00	0.00
ATOM 375	2HE2	GLN A	27	-24.121	-13.432	-8.561	1.00	0.00
ATOM 376	N	ASP A	28	-19.283	-10.649	-3.450	1.00	0.00
ATOM 377	CA	ASP A	28	-19.315	-9.649	-2.390	1.00	0.00
ATOM 378	C	ASP A	28	-18.351	-8.506	-2.690	1.00	0.00

ATOM 379	O	ASP A	28	-18.723	-7.333	-2.625	1.00	0.00
ATOM 380	CB	ASP A	28	-18.961	-10.289	-1.045	1.00	0.00
ATOM 381	CG	ASP A	28	-19.736	-11.567	-0.791	1.00	0.00
ATOM 382	OD1	ASP A	28	-20.563	-11.583	0.145	1.00	0.00
ATOM 383	OD2	ASP A	28	-19.517	-12.551	-1.529	1.00	0.00
ATOM 384	H	ASP A	28	-19.014	-11.566	-3.234	1.00	0.00
ATOM 385	HA	ASP A	28	-20.318	-9.254	-2.337	1.00	0.00
ATOM 386	1HB	ASP A	28	-17.907	-10.521	-1.030	1.00	0.00
ATOM 387	2HB	ASP A	28	-19.183	-9.591	-0.251	1.00	0.00
ATOM 388	N	ILE A	29	-17.112	-8.855	-3.021	1.00	0.00
ATOM 389	CA	ILE A	29	-16.095	-7.857	-3.334	1.00	0.00
ATOM 390	C	ILE A	29	-16.454	-7.077	-4.595	1.00	0.00
ATOM 391	O	ILE A	29	-15.971	-5.965	-4.805	1.00	0.00
ATOM 392	CB	ILE A	29	-14.709	-8.507	-3.519	1.00	0.00
ATOM 393	CG1	ILE A	29	-14.377	-9.400	-2.323	1.00	0.00
ATOM 394	CG2	ILE A	29	-13.642	-7.438	-3.702	1.00	0.00
ATOM 395	CD1	ILE A	29	-14.394	-8.667	-0.998	1.00	0.00
ATOM 396	H	ILE A	29	-16.877	-9.804	-3.056	1.00	0.00
ATOM 397	HA	ILE A	29	-16.038	-7.170	-2.502	1.00	0.00
ATOM 398	HB	ILE A	29	-14.736	-9.111	-4.414	1.00	0.00
ATOM 399	1HG1	ILE A	29	-15.098	-10.201	-2.267	1.00	0.00
ATOM 400	2HG1	ILE A	29	-13.390	-9.818	-2.458	1.00	0.00
ATOM 401	1HG2	ILE A	29	-13.818	-6.907	-4.625	1.00	0.00
ATOM 402	2HG2	ILE A	29	-12.668	-7.904	-3.734	1.00	0.00
ATOM 403	3HG2	ILE A	29	-13.682	-6.745	-2.874	1.00	0.00
ATOM 404	1HD1	ILE A	29	-13.640	-9.082	-0.347	1.00	0.00
ATOM 405	2HD1	ILE A	29	-15.365	-8.776	-0.539	1.00	0.00

ATOM 406	3HD1	ILE	A	29	-14.190	-7.619	-1.164	1.00	0.00
ATOM 407	N	ALA	A	30	-17.305	-7.664	-5.433	1.00	0.00
ATOM 408	CA	ALA	A	30	-17.725	-7.018	-6.670	1.00	0.00
ATOM 409	C	ALA	A	30	-19.068	-6.316	-6.495	1.00	0.00
ATOM 410	O	ALA	A	30	-19.852	-6.211	-7.437	1.00	0.00
ATOM 411	CB	ALA	A	30	-17.805	-8.038	-7.796	1.00	0.00
ATOM 412	H	ALA	A	30	-17.658	-8.551	-5.213	1.00	0.00
ATOM 413	HA	ALA	A	30	-16.977	-6.285	-6.934	1.00	0.00
ATOM 414	1HB	ALA	A	30	-17.582	-7.556	-8.736	1.00	0.00
ATOM 415	2HB	ALA	A	30	-18.801	-8.456	-7.832	1.00	0.00
ATOM 416	3HB	ALA	A	30	-17.090	-8.827	-7.617	1.00	0.00
ATOM 417	N	GLN	A	31	-19.325	-5.835	-5.283	1.00	0.00
ATOM 418	CA	GLN	A	31	-20.572	-5.142	-4.983	1.00	0.00
ATOM 419	C	GLN	A	31	-20.458	-4.358	-3.676	1.00	0.00
ATOM 420	O	GLN	A	31	-20.567	-4.929	-2.592	1.00	0.00
ATOM 421	CB	GLN	A	31	-21.725	-6.145	-4.889	1.00	0.00
ATOM 422	CG	GLN	A	31	-22.490	-6.315	-6.191	1.00	0.00
ATOM 423	CD	GLN	A	31	-23.924	-5.830	-6.095	1.00	0.00
ATOM 424	OE1	GLN	A	31	-24.575	-5.986	-5.063	1.00	0.00
ATOM 425	NE2	GLN	A	31	-24.422	-5.238	-7.174	1.00	0.00
ATOM 426	H	GLN	A	31	-18.660	-5.950	-4.572	1.00	0.00
ATOM 427	HA	GLN	A	31	-20.772	-4.454	-5.790	1.00	0.00
ATOM 428	1HB	GLN	A	31	-21.327	-7.107	-4.602	1.00	0.00
ATOM 429	2HB	GLN	A	31	-22.417	-5.811	-4.130	1.00	0.00
ATOM 430	1HG	GLN	A	31	-21.989	-5.753	-6.965	1.00	0.00
ATOM 431	2HG	GLN	A	31	-22.497	-7.363	-6.456	1.00	0.00
ATOM 432	1HE2	GLN	A	31	-23.845	-5.148	-7.962	1.00	0.00

ATOM 433	2HE2	GLN	A	31	-25.346	-4.914	-7.139	1.00	0.00
ATOM 434	N	PRO	A	32	-20.233	-3.034	-3.761	1.00	0.00
ATOM 435	CA	PRO	A	32	-20.104	-2.180	-2.575	1.00	0.00
ATOM 436	C	PRO	A	32	-21.251	-2.376	-1.588	1.00	0.00
ATOM 437	O	PRO	A	32	-21.102	-2.125	-0.392	1.00	0.00
ATOM 438	CB	PRO	A	32	-20.132	-0.764	-3.153	1.00	0.00
ATOM 439	CG	PRO	A	32	-19.623	-0.915	-4.544	1.00	0.00
ATOM 440	CD	PRO	A	32	-20.088	-2.266	-5.013	1.00	0.00
ATOM 441	HA	PRO	A	32	-19.165	-2.347	-2.070	1.00	0.00
ATOM 442	1HB	PRO	A	32	-21.144	-0.386	-3.139	1.00	0.00
ATOM 443	2HB	PRO	A	32	-19.493	-0.120	-2.568	1.00	0.00
ATOM 444	1HG	PRO	A	32	-20.036	-0.138	-5.172	1.00	0.00
ATOM 445	2HG	PRO	A	32	-18.545	-0.868	-4.548	1.00	0.00
ATOM 446	1HD	PRO	A	32	-21.034	-2.183	-5.526	1.00	0.00
ATOM 447	2HD	PRO	A	32	-19.347	-2.718	-5.657	1.00	0.00
ATOM 448	N	SER	A	33	-22.395	-2.826	-2.095	1.00	0.00
ATOM 449	CA	SER	A	33	-23.566	-3.055	-1.255	1.00	0.00
ATOM 450	C	SER	A	33	-23.244	-4.026	-0.121	1.00	0.00
ATOM 451	O	SER	A	33	-23.845	-3.961	0.952	1.00	0.00
ATOM 452	CB	SER	A	33	-24.722	-3.601	-2.095	1.00	0.00
ATOM 453	OG	SER	A	33	-25.944	-3.541	-1.381	1.00	0.00
ATOM 454	H	SER	A	33	-22.453	-3.007	-3.055	1.00	0.00
ATOM 455	HA	SER	A	33	-23.858	-2.108	-0.830	1.00	0.00
ATOM 456	1HB	SER	A	33	-24.818	-3.013	-2.997	1.00	0.00
ATOM 457	2HB	SER	A	33	-24.521	-4.629	-2.356	1.00	0.00
ATOM 458	HG	SER	A	33	-25.849	-3.999	-0.543	1.00	0.00
ATOM 459	N	THR	A	34	-22.295	-4.923	-0.366	1.00	0.00

ATOM 460	CA	THR A	34	-21.897	-5.906	0.636	1.00	0.00
ATOM 461	C	THR A	34	-20.872	-5.316	1.599	1.00	0.00
ATOM 462	O	THR A	34	-20.285	-4.267	1.333	1.00	0.00
ATOM 463	CB	THR A	34	-21.321	-7.151	-0.040	1.00	0.00
ATOM 464	OG1	THR A	34	-20.027	-6.890	-0.553	1.00	0.00
ATOM 465	CG2	THR A	34	-22.174	-7.660	-1.183	1.00	0.00
ATOM 466	H	THR A	34	-21.852	-4.926	-1.240	1.00	0.00
ATOM 467	HA	THR A	34	-22.779	-6.185	1.194	1.00	0.00
ATOM 468	HB	THR A	34	-21.243	-7.941	0.692	1.00	0.00
ATOM 469	HG1	THR A	34	-19.366	-7.205	0.068	1.00	0.00
ATOM 470	1HG2	THR A	34	-22.553	-8.641	-0.939	1.00	0.00
ATOM 471	2HG2	THR A	34	-21.576	-7.717	-2.080	1.00	0.00
ATOM 472	3HG2	THR A	34	-23.001	-6.983	-1.343	1.00	0.00
ATOM 473	N	THR A	35	-20.662	-5.997	2.721	1.00	0.00
ATOM 474	CA	THR A	35	-19.709	-5.541	3.726	1.00	0.00
ATOM 475	C	THR A	35	-18.288	-5.969	3.367	1.00	0.00
ATOM 476	O	THR A	35	-17.320	-5.288	3.708	1.00	0.00
ATOM 477	CB	THR A	35	-20.087	-6.090	5.103	1.00	0.00
ATOM 478	OG1	THR A	35	-21.430	-5.770	5.419	1.00	0.00
ATOM 479	CG2	THR A	35	-19.213	-5.560	6.219	1.00	0.00
ATOM 480	H	THR A	35	-21.161	-6.826	2.878	1.00	0.00
ATOM 481	HA	THR A	35	-19.750	-4.462	3.756	1.00	0.00
ATOM 482	HB	THR A	35	-19.990	-7.166	5.089	1.00	0.00
ATOM 483	HG1	THR A	35	-21.729	-6.321	6.146	1.00	0.00
ATOM 484	1HG2	THR A	35	-18.686	-6.380	6.683	1.00	0.00
ATOM 485	2HG2	THR A	35	-19.831	-5.066	6.955	1.00	0.00
ATOM 486	3HG2	THR A	35	-18.501	-4.857	5.816	1.00	0.00



ATOM 487	N	LYS A	36	-18.171	-7.101	2.680	1.00	0.00
ATOM 488	CA	LYS A	36	-16.868	-7.619	2.276	1.00	0.00
ATOM 489	C	LYS A	36	-16.103	-6.592	1.446	1.00	0.00
ATOM 490	O	LYS A	36	-14.872	-6.573	1.444	1.00	0.00
ATOM 491	CB	LYS A	36	-17.036	-8.914	1.478	1.00	0.00
ATOM 492	CG	LYS A	36	-15.899	-9.902	1.675	1.00	0.00
ATOM 493	CD	LYS A	36	-16.165	-11.211	0.948	1.00	0.00
ATOM 494	CE	LYS A	36	-15.084	-12.240	1.242	1.00	0.00
ATOM 495	NZ	LYS A	36	-15.089	-13.350	0.248	1.00	0.00
ATOM 496	H	LYS A	36	-18.979	-7.599	2.438	1.00	0.00
ATOM 497	HA	LYS A	36	-16.304	-7.832	3.172	1.00	0.00
ATOM 498	1HB	LYS A	36	-17.956	-9.392	1.780	1.00	0.00
ATOM 499	2HB	LYS A	36	-17.095	-8.671	0.427	1.00	0.00
ATOM 500	1HG	LYS A	36	-14.987	-9.469	1.292	1.00	0.00
ATOM 501	2HG	LYS A	36	-15.788	-10.103	2.731	1.00	0.00
ATOM 502	1HD	LYS A	36	-17.117	-11.604	1.271	1.00	0.00
ATOM 503	2HD	LYS A	36	-16.192	-11.023	-0.114	1.00	0.00
ATOM 504	1HE	LYS A	36	-14.122	-11.751	1.216	1.00	0.00
ATOM 505	2HE	LYS A	36	-15.252	-12.650	2.227	1.00	0.00
ATOM 506	1HZ	LYS A	36	-14.156	-13.809	0.221	1.00	0.00
ATOM 507	2HZ	LYS A	36	-15.310	-12.982	-0.698	1.00	0.00
ATOM 508	3HZ	LYS A	36	-15.804	-14.059	0.508	1.00	0.00
ATOM 509	N	TYR A	37	-16.840	-5.738	0.744	1.00	0.00
ATOM 510	CA	TYR A	37	-16.232	-4.706	-0.088	1.00	0.00
ATOM 511	C	TYR A	37	-15.521	-3.662	0.769	1.00	0.00
ATOM 512	O	TYR A	37	-14.343	-3.374	0.563	1.00	0.00
ATOM 513	CB	TYR A	37	-17.296	-4.034	-0.958	1.00	0.00

ATOM 514	CG	TYR A	37	-16.752	-2.938	-1.847	1.00	0.00
ATOM 515	CD1	TYR A	37	-16.124	-3.240	-3.049	1.00	0.00
ATOM 516	CD2	TYR A	37	-16.869	-1.602	-1.485	1.00	0.00
ATOM 517	CE1	TYR A	37	-15.627	-2.241	-3.865	1.00	0.00
ATOM 518	CE2	TYR A	37	-16.374	-0.597	-2.295	1.00	0.00
ATOM 519	CZ	TYR A	37	-15.754	-0.922	-3.483	1.00	0.00
ATOM 520	OH	TYR A	37	-15.261	0.075	-4.292	1.00	0.00
ATOM 521	H	TYR A	37	-17.817	-5.801	0.788	1.00	0.00
ATOM 522	HA	TYR A	37	-15.505	-5.184	-0.729	1.00	0.00
ATOM 523	1HB	TYR A	37	-17.755	-4.777	-1.592	1.00	0.00
ATOM 524	2HB	TYR A	37	-18.051	-3.599	-0.319	1.00	0.00
ATOM 525	HD1	TYR A	37	-16.026	-4.273	-3.345	1.00	0.00
ATOM 526	HD2	TYR A	37	-17.353	-1.350	-0.553	1.00	0.00
ATOM 527	HE1	TYR A	37	-15.143	-2.496	-4.795	1.00	0.00
ATOM 528	HE2	TYR A	37	-16.474	0.435	-1.995	1.00	0.00
ATOM 529	HH	TYR A	37	-15.836	0.184	-5.054	1.00	0.00
ATOM 530	N	GLN A	38	-16.248	-3.099	1.730	1.00	0.00
ATOM 531	CA	GLN A	38	-15.689	-2.084	2.616	1.00	0.00
ATOM 532	C	GLN A	38	-14.692	-2.701	3.595	1.00	0.00
ATOM 533	O	GLN A	38	-13.737	-2.048	4.014	1.00	0.00
ATOM 534	CB	GLN A	38	-16.806	-1.380	3.387	1.00	0.00
ATOM 535	CG	GLN A	38	-17.891	-0.802	2.492	1.00	0.00
ATOM 536	CD	GLN A	38	-19.289	-1.143	2.971	1.00	0.00
ATOM 537	OE1	GLN A	38	-19.500	-1.430	4.150	1.00	0.00
ATOM 538	NE2	GLN A	38	-20.252	-1.112	2.058	1.00	0.00
ATOM 539	H	GLN A	38	-17.183	-3.370	1.843	1.00	0.00
ATOM 540	HA	GLN A	38	-15.172	-1.359	2.006	1.00	0.00

ATOM 541	1HB	GLN A	38	-17.266	-2.088	4.061	1.00	0.00
ATOM 542	2HB	GLN A	38	-16.378	-0.573	3.963	1.00	0.00
ATOM 543	1HG	GLN A	38	-17.787	0.272	2.470	1.00	0.00
ATOM 544	2HG	GLN A	38	-17.763	-1.194	1.494	1.00	0.00
ATOM 545	1HE2	GLN A	38	-20.011	-0.874	1.138	1.00	0.00
ATOM 546	2HE2	GLN A	38	-21.165	-1.328	2.341	1.00	0.00
ATOM 547	N	GLN A	39	-14.923	-3.960	3.953	1.00	0.00
ATOM 548	CA	GLN A	39	-14.046	-4.662	4.884	1.00	0.00
ATOM 549	C	GLN A	39	-12.617	-4.721	4.349	1.00	0.00
ATOM 550	O	GLN A	39	-11.703	-4.136	4.928	1.00	0.00
ATOM 551	CB	GLN A	39	-14.570	-6.077	5.140	1.00	0.00
ATOM 552	CG	GLN A	39	-15.247	-6.239	6.491	1.00	0.00
ATOM 553	CD	GLN A	39	-14.670	-7.382	7.303	1.00	0.00
ATOM 554	OE1	GLN A	39	-13.537	-7.310	7.779	1.00	0.00
ATOM 555	NE2	GLN A	39	-15.448	-8.446	7.465	1.00	0.00
ATOM 556	H	GLN A	39	-15.701	-4.427	3.586	1.00	0.00
ATOM 557	HA	GLN A	39	-14.044	-4.115	5.815	1.00	0.00
ATOM 558	1HB	GLN A	39	-15.284	-6.329	4.371	1.00	0.00
ATOM 559	2HB	GLN A	39	-13.742	-6.771	5.091	1.00	0.00
ATOM 560	1HG	GLN A	39	-15.128	-5.323	7.051	1.00	0.00
ATOM 561	2HG	GLN A	39	-16.299	-6.426	6.331	1.00	0.00
ATOM 562	1HE2	GLN A	39	-16.340	-8.434	7.058	1.00	0.00
ATOM 563	2HE2	GLN A	39	-15.100	-9.199	7.986	1.00	0.00
ATOM 564	N	THR A	40	-12.434	-5.433	3.243	1.00	0.00
ATOM 565	CA	THR A	40	-11.118	-5.571	2.631	1.00	0.00
ATOM 566	C	THR A	40	-10.552	-4.209	2.237	1.00	0.00
ATOM 567	O	THR A	40	-9.338	-4.007	2.240	1.00	0.00

ATOM 568	CB	THR A	40	-11.194	-6.478	1.402	1.00	0.00
ATOM 569	OG1	THR A	40	-11.919	-7.660	1.695	1.00	0.00
ATOM 570	CG2	THR A	40	-9.836	-6.890	0.877	1.00	0.00
ATOM 571	H	THR A	40	-13.202	-5.878	2.827	1.00	0.00
ATOM 572	HA	THR A	40	-10.460	-6.022	3.359	1.00	0.00
ATOM 573	HB	THR A	40	-11.709	-5.951	0.610	1.00	0.00
ATOM 574	HG1	THR A	40	-11.563	-8.065	2.489	1.00	0.00
ATOM 575	1HG2	THR A	40	-9.589	-6.295	0.010	1.00	0.00
ATOM 576	2HG2	THR A	40	-9.858	-7.934	0.603	1.00	0.00
ATOM 577	3HG2	THR A	40	-9.091	-6.735	1.644	1.00	0.00
ATOM 578	N	LYS A	41	-11.440	-3.280	1.898	1.00	0.00
ATOM 579	CA	LYS A	41	-11.028	-1.938	1.501	1.00	0.00
ATOM 580	C	LYS A	41	-10.345	-1.213	2.656	1.00	0.00
ATOM 581	O	LYS A	41	-9.185	-0.811	2.551	1.00	0.00
ATOM 582	CB	LYS A	41	-12.236	-1.132	1.020	1.00	0.00
ATOM 583	CG	LYS A	41	-11.862	0.156	0.305	1.00	0.00
ATOM 584	CD	LYS A	41	-13.071	0.796	-0.358	1.00	0.00
ATOM 585	CE	LYS A	41	-13.358	0.168	-1.712	1.00	0.00
ATOM 586	NZ	LYS A	41	-12.207	0.310	-2.647	1.00	0.00
ATOM 587	H	LYS A	41	-12.394	-3.502	1.914	1.00	0.00
ATOM 588	HA	LYS A	41	-10.324	-2.035	0.687	1.00	0.00
ATOM 589	1HB	LYS A	41	-12.813	-1.740	0.341	1.00	0.00
ATOM 590	2HB	LYS A	41	-12.848	-0.881	1.874	1.00	0.00
ATOM 591	1HG	LYS A	41	-11.450	0.850	1.024	1.00	0.00
ATOM 592	2HG	LYS A	41	-11.122	-0.063	-0.450	1.00	0.00
ATOM 593	1HD	LYS A	41	-13.931	0.663	0.279	1.00	0.00
ATOM 594	2HD	LYS A	41	-12.879	1.851	-0.493	1.00	0.00

ATOM 595	1HE	LYS	A	41	-13.567	-0.882	-1.571	1.00	0.00
ATOM 596	2HE	LYS	A	41	-14.222	0.653	-2.142	1.00	0.00
ATOM 597	1HZ	LYS	A	41	-11.828	1.277	-2.603	1.00	0.00
ATOM 598	2HZ	LYS	A	41	-12.513	0.114	-3.622	1.00	0.00
ATOM 599	3HZ	LYS	A	41	-11.454	-0.359	-2.391	1.00	0.00
ATOM 600	N	ARG	A	42	-11.071	-1.047	3.757	1.00	0.00
ATOM 601	CA	ARG	A	42	-10.536	-0.368	4.931	1.00	0.00
ATOM 602	C	ARG	A	42	-9.320	-1.107	5.484	1.00	0.00
ATOM 603	O	ARG	A	42	-8.411	-0.494	6.044	1.00	0.00
ATOM 604	CB	ARG	A	42	-11.611	-0.254	6.013	1.00	0.00
ATOM 605	CG	ARG	A	42	-11.316	0.815	7.054	1.00	0.00
ATOM 606	CD	ARG	A	42	-11.795	2.183	6.599	1.00	0.00
ATOM 607	NE	ARG	A	42	-11.104	3.265	7.295	1.00	0.00
ATOM 608	CZ	ARG	A	42	-11.392	3.652	8.536	1.00	0.00
ATOM 609	NH1	ARG	A	42	-12.359	3.050	9.218	1.00	0.00
ATOM 610	NH2	ARG	A	42	-10.713	4.644	9.095	1.00	0.00
ATOM 611	H	ARG	A	42	-11.989	-1.389	3.778	1.00	0.00
ATOM 612	HA	ARG	A	42	-10.233	0.624	4.631	1.00	0.00
ATOM 613	1HB	ARG	A	42	-12.555	-0.017	5.543	1.00	0.00
ATOM 614	2HB	ARG	A	42	-11.699	-1.204	6.519	1.00	0.00
ATOM 615	1HG	ARG	A	42	-11.818	0.556	7.973	1.00	0.00
ATOM 616	2HG	ARG	A	42	-10.249	0.854	7.222	1.00	0.00
ATOM 617	1HD	ARG	A	42	-11.617	2.279	5.538	1.00	0.00
ATOM 618	2HD	ARG	A	42	-12.855	2.262	6.793	1.00	0.00
ATOM 619	HE	ARG	A	42	-10.386	3.727	6.815	1.00	0.00
ATOM 620	1HH1	ARG	A	42	-12.875	2.302	8.802	1.00	0.00
ATOM 621	2HH1	ARG	A	42	-12.571	3.346	10.149	1.00	0.00

ATOM 622	1HH2	ARG	A	42	-9.983	5.101	8.586	1.00	0.00
ATOM 623	2HH2	ARG	A	42	-10.930	4.935	10.027	1.00	0.00
ATOM 624	N	SER	A	43	-9.311	-2.426	5.323	1.00	0.00
ATOM 625	CA	SER	A	43	-8.207	-3.246	5.808	1.00	0.00
ATOM 626	C	SER	A	43	-6.894	-2.848	5.140	1.00	0.00
ATOM 627	O	SER	A	43	-5.854	-2.767	5.793	1.00	0.00
ATOM 628	CB	SER	A	43	-8.495	-4.727	5.550	1.00	0.00
ATOM 629	OG	SER	A	43	-7.892	-5.544	6.539	1.00	0.00
ATOM 630	H	SER	A	43	-10.064	-2.857	4.869	1.00	0.00
ATOM 631	HA	SER	A	43	-8.118	-3.087	6.872	1.00	0.00
ATOM 632	1HB	SER	A	43	-9.562	-4.893	5.566	1.00	0.00
ATOM 633	2HB	SER	A	43	-8.102	-5.004	4.583	1.00	0.00
ATOM 634	HG	SER	A	43	-8.243	-5.313	7.402	1.00	0.00
ATOM 635	N	ILE	A	44	-6.950	-2.604	3.835	1.00	0.00
ATOM 636	CA	ILE	A	44	-5.764	-2.216	3.080	1.00	0.00
ATOM 637	C	ILE	A	44	-5.369	-0.773	3.379	1.00	0.00
ATOM 638	O	ILE	A	44	-4.205	-0.482	3.654	1.00	0.00
ATOM 639	CB	ILE	A	44	-5.988	-2.371	1.563	1.00	0.00
ATOM 640	CG1	ILE	A	44	-6.528	-3.766	1.244	1.00	0.00
ATOM 641	CG2	ILE	A	44	-4.692	-2.113	0.807	1.00	0.00
ATOM 642	CD1	ILE	A	44	-7.417	-3.804	0.020	1.00	0.00
ATOM 643	H	ILE	A	44	-7.808	-2.686	3.369	1.00	0.00
ATOM 644	HA	ILE	A	44	-4.954	-2.868	3.372	1.00	0.00
ATOM 645	HB	ILE	A	44	-6.711	-1.633	1.250	1.00	0.00
ATOM 646	1HG1	ILE	A	44	-5.699	-4.436	1.070	1.00	0.00
ATOM 647	2HG1	ILE	A	44	-7.103	-4.124	2.084	1.00	0.00
ATOM 648	1HG2	ILE	A	44	-3.852	-2.329	1.449	1.00	0.00

ATOM 649	2HG2	ILE	A	44	-4.655	-1.078	0.499	1.00	0.00
ATOM 650	3HG2	ILE	A	44	-4.652	-2.749	-0.065	1.00	0.00
ATOM 651	1HD1	ILE	A	44	-6.815	-3.982	-0.858	1.00	0.00
ATOM 652	2HD1	ILE	A	44	-7.932	-2.859	-0.081	1.00	0.00
ATOM 653	3HD1	ILE	A	44	-8.142	-4.598	0.127	1.00	0.00
ATOM 654	N	GLU	A	45	-6.345	0.128	3.322	1.00	0.00
ATOM 655	CA	GLU	A	45	-6.099	1.541	3.586	1.00	0.00
ATOM 656	C	GLU	A	45	-5.514	1.741	4.981	1.00	0.00
ATOM 657	O	GLU	A	45	-4.614	2.559	5.176	1.00	0.00
ATOM 658	CB	GLU	A	45	-7.396	2.341	3.439	1.00	0.00
ATOM 659	CG	GLU	A	45	-7.448	3.187	2.178	1.00	0.00
ATOM 660	CD	GLU	A	45	-8.385	4.372	2.309	1.00	0.00
ATOM 661	OE1	GLU	A	45	-9.262	4.535	1.435	1.00	0.00
ATOM 662	OE2	GLU	A	45	-8.242	5.137	3.286	1.00	0.00
ATOM 663	H	GLU	A	45	-7.253	-0.166	3.095	1.00	0.00
ATOM 664	HA	GLU	A	45	-5.385	1.894	2.856	1.00	0.00
ATOM 665	1HB	GLU	A	45	-8.229	1.654	3.420	1.00	0.00
ATOM 666	2HB	GLU	A	45	-7.500	2.998	4.291	1.00	0.00
ATOM 667	1HG	GLU	A	45	-6.455	3.555	1.965	1.00	0.00
ATOM 668	2HG	GLU	A	45	-7.785	2.570	1.359	1.00	0.00
ATOM 669	N	ASN	A	46	-6.032	0.990	5.947	1.00	0.00
ATOM 670	CA	ASN	A	46	-5.563	1.085	7.324	1.00	0.00
ATOM 671	C	ASN	A	46	-4.136	0.559	7.450	1.00	0.00
ATOM 672	O	ASN	A	46	-3.277	1.202	8.057	1.00	0.00
ATOM 673	CB	ASN	A	46	-6.491	0.305	8.256	1.00	0.00
ATOM 674	CG	ASN	A	46	-6.094	0.434	9.713	1.00	0.00
ATOM 675	OD1	ASN	A	46	-5.721	1.513	10.173	1.00	0.00

ATOM 676	ND2	ASN	A	46	-6.170	-0.670	10.447	1.00	0.00
ATOM 677	H	ASN	A	46	-6.747	0.357	5.728	1.00	0.00
ATOM 678	HA	ASN	A	46	-5.575	2.127	7.607	1.00	0.00
ATOM 679	1HB	ASN	A	46	-7.499	0.676	8.143	1.00	0.00
ATOM 680	2HB	ASN	A	46	-6.466	-0.741	7.985	1.00	0.00
ATOM 681	1HD2	ASN	A	46	-6.475	-1.493	10.013	1.00	0.00
ATOM 682	2HD2	ASN	A	46	-5.919	-0.615	11.392	1.00	0.00
ATOM 683	N	ALA	A	47	-3.890	-0.613	6.876	1.00	0.00
ATOM 684	CA	ALA	A	47	-2.569	-1.227	6.925	1.00	0.00
ATOM 685	C	ALA	A	47	-1.545	-0.393	6.162	1.00	0.00
ATOM 686	O	ALA	A	47	-0.399	-0.255	6.589	1.00	0.00
ATOM 687	CB	ALA	A	47	-2.625	-2.642	6.368	1.00	0.00
ATOM 688	H	ALA	A	47	-4.615	-1.077	6.408	1.00	0.00
ATOM 689	HA	ALA	A	47	-2.268	-1.287	7.961	1.00	0.00
ATOM 690	1HB	ALA	A	47	-1.917	-2.741	5.557	1.00	0.00
ATOM 691	2HB	ALA	A	47	-3.620	-2.846	6.003	1.00	0.00
ATOM 692	3HB	ALA	A	47	-2.377	-3.347	7.148	1.00	0.00
ATOM 693	N	LEU	A	48	-1.967	0.161	5.030	1.00	0.00
ATOM 694	CA	LEU	A	48	-1.087	0.981	4.205	1.00	0.00
ATOM 695	C	LEU	A	48	-0.794	2.318	4.880	1.00	0.00
ATOM 696	O	LEU	A	48	0.277	2.894	4.697	1.00	0.00
ATOM 697	CB	LEU	A	48	-1.714	1.218	2.831	1.00	0.00
ATOM 698	CG	LEU	A	48	-1.539	0.073	1.832	1.00	0.00
ATOM 699	CD1	LEU	A	48	-2.458	0.264	0.634	1.00	0.00
ATOM 700	CD2	LEU	A	48	-0.089	-0.025	1.383	1.00	0.00
ATOM 701	H	LEU	A	48	-2.891	0.014	4.740	1.00	0.00
ATOM 702	HA	LEU	A	48	-0.158	0.445	4.079	1.00	0.00



ATOM 703	1HB	LEU	A	48	-2.772	1.391	2.967	1.00	0.00
ATOM 704	2HB	LEU	A	48	-1.273	2.107	2.405	1.00	0.00
ATOM 705	HG	LEU	A	48	-1.805	-0.859	2.312	1.00	0.00
ATOM 706	1HD1	LEU	A	48	-2.676	-0.697	0.192	1.00	0.00
ATOM 707	2HD1	LEU	A	48	-1.971	0.893	-0.095	1.00	0.00
ATOM 708	3HD1	LEU	A	48	-3.377	0.730	0.957	1.00	0.00
ATOM 709	1HD2	LEU	A	48	0.030	-0.879	0.733	1.00	0.00
ATOM 710	2HD2	LEU	A	48	0.548	-0.139	2.248	1.00	0.00
ATOM 711	3HD2	LEU	A	48	0.185	0.874	0.851	1.00	0.00
ATOM 712	N	ASN	A	49	-1.755	2.805	5.659	1.00	0.00
ATOM 713	CA	ASN	A	49	-1.601	4.075	6.360	1.00	0.00
ATOM 714	C	ASN	A	49	-0.389	4.044	7.288	1.00	0.00
ATOM 715	O	ASN	A	49	0.570	4.791	7.098	1.00	0.00
ATOM 716	CB	ASN	A	49	-2.864	4.395	7.161	1.00	0.00
ATOM 717	CG	ASN	A	49	-3.282	5.846	7.024	1.00	0.00
ATOM 718	OD1	ASN	A	49	-2.928	6.686	7.852	1.00	0.00
ATOM 719	ND2	ASN	A	49	-4.041	6.148	5.977	1.00	0.00
ATOM 720	H	ASN	A	49	-2.587	2.299	5.764	1.00	0.00
ATOM 721	HA	ASN	A	49	-1.450	4.846	5.619	1.00	0.00
ATOM 722	1HB	ASN	A	49	-3.674	3.773	6.808	1.00	0.00
ATOM 723	2HB	ASN	A	49	-2.685	4.187	8.206	1.00	0.00
ATOM 724	1HD2	ASN	A	49	-4.284	5.427	5.359	1.00	0.00
ATOM 725	2HD2	ASN	A	49	-4.325	7.079	5.865	1.00	0.00
ATOM 726	N	GLN	A	50	-0.444	3.176	8.294	1.00	0.00
ATOM 727	CA	GLN	A	50	0.648	3.049	9.253	1.00	0.00
ATOM 728	C	GLN	A	50	1.950	2.664	8.556	1.00	0.00
ATOM 729	O	GLN	A	50	3.038	2.984	9.034	1.00	0.00

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ATOM 730	CB	GLN A	50	0.299	2.006	10.317	1.00	0.00
ATOM 731	CG	GLN A	50	0.134	0.601	9.762	1.00	0.00
ATOM 732	CD	GLN A	50	-0.177	-0.418	10.840	1.00	0.00
ATOM 733	OE1	GLN A	50	0.141	-0.215	12.012	1.00	0.00
ATOM 734	NE2	GLN A	50	-0.800	-1.522	10.448	1.00	0.00
ATOM 735	H	GLN A	50	-1.237	2.609	8.393	1.00	0.00
ATOM 736	HA	GLN A	50	0.781	4.007	9.731	1.00	0.00
ATOM 737	1HB	GLN A	50	1.085	1.988	11.058	1.00	0.00
ATOM 738	2HB	GLN A	50	-0.626	2.293	10.796	1.00	0.00
ATOM 739	1HG	GLN A	50	-0.675	0.603	9.047	1.00	0.00
ATOM 740	2HG	GLN A	50	1.050	0.313	9.268	1.00	0.00
ATOM 741	1HE2	GLN A	50	-1.021	-1.617	9.498	1.00	0.00
ATOM 742	2HE2	GLN A	50	-1.013	-2.199	11.125	1.00	0.00
ATOM 743	N	LEU A	51	1.831	1.974	7.425	1.00	0.00
ATOM 744	CA	LEU A	51	3.000	1.545	6.664	1.00	0.00
ATOM 745	C	LEU A	51	3.860	2.738	6.262	1.00	0.00
ATOM 746	O	LEU A	51	5.064	2.765	6.525	1.00	0.00
ATOM 747	CB	LEU A	51	2.565	0.772	5.418	1.00	0.00
ATOM 748	CG	LEU A	51	3.664	-0.063	4.758	1.00	0.00
ATOM 749	CD1	LEU A	51	3.064	-1.252	4.025	1.00	0.00
ATOM 750	CD2	LEU A	51	4.484	0.795	3.806	1.00	0.00
ATOM 751	H	LEU A	51	0.937	1.747	7.095	1.00	0.00
ATOM 752	HA	LEU A	51	3.584	0.892	7.296	1.00	0.00
ATOM 753	1HB	LEU A	51	1.757	0.110	5.694	1.00	0.00
ATOM 754	2HB	LEU A	51	2.197	1.479	4.691	1.00	0.00
ATOM 755	HG	LEU A	51	4.327	-0.442	5.522	1.00	0.00
ATOM 756	1HD1	LEU A	51	2.334	-0.903	3.311	1.00	0.00

ATOM 757	2HD1	LEU	A	51	2.586	-1.909	4.737	1.00	0.00
ATOM 758	3HD1	LEU	A	51	3.845	-1.789	3.508	1.00	0.00
ATOM 759	1HD2	LEU	A	51	5.143	0.162	3.229	1.00	0.00
ATOM 760	2HD2	LEU	A	51	5.070	1.503	4.372	1.00	0.00
ATOM 761	3HD2	LEU	A	51	3.821	1.326	3.139	1.00	0.00
ATOM 762	N	PHE	A	52	3.238	3.723	5.623	1.00	0.00
ATOM 763	CA	PHE	A	52	3.949	4.919	5.182	1.00	0.00
ATOM 764	C	PHE	A	52	4.580	5.645	6.366	1.00	0.00
ATOM 765	O	PHE	A	52	5.722	6.100	6.292	1.00	0.00
ATOM 766	CB	PHE	A	52	2.999	5.862	4.441	1.00	0.00
ATOM 767	CG	PHE	A	52	2.078	5.161	3.484	1.00	0.00
ATOM 768	CD1	PHE	A	52	0.708	5.353	3.555	1.00	0.00
ATOM 769	CD2	PHE	A	52	2.582	4.308	2.514	1.00	0.00
ATOM 770	CE1	PHE	A	52	-0.143	4.708	2.678	1.00	0.00
ATOM 771	CE2	PHE	A	52	1.736	3.661	1.635	1.00	0.00
ATOM 772	CZ	PHE	A	52	0.371	3.860	1.717	1.00	0.00
ATOM 773	H	PHE	A	52	2.279	3.644	5.441	1.00	0.00
ATOM 774	HA	PHE	A	52	4.733	4.608	4.507	1.00	0.00
ATOM 775	1HB	PHE	A	52	2.391	6.388	5.162	1.00	0.00
ATOM 776	2HB	PHE	A	52	3.582	6.578	3.879	1.00	0.00
ATOM 777	HD1	PHE	A	52	0.305	6.016	4.307	1.00	0.00
ATOM 778	HD2	PHE	A	52	3.649	4.151	2.450	1.00	0.00
ATOM 779	HE1	PHE	A	52	-1.209	4.866	2.746	1.00	0.00
ATOM 780	HE2	PHE	A	52	2.141	2.999	0.883	1.00	0.00
ATOM 781	HZ	PHE	A	52	-0.292	3.356	1.030	1.00	0.00
ATOM 782	N	ARG	A	53	3.829	5.751	7.457	1.00	0.00
ATOM 783	CA	ARG	A	53	4.313	6.424	8.659	1.00	0.00

ATOM 784	C	ARG A	53	5.462	5.652	9.304	1.00	0.00
ATOM 785	O	ARG A	53	6.181	6.188	10.149	1.00	0.00
ATOM 786	CB	ARG A	53	3.172	6.596	9.663	1.00	0.00
ATOM 787	CG	ARG A	53	2.221	7.729	9.315	1.00	0.00
ATOM 788	CD	ARG A	53	1.095	7.844	10.330	1.00	0.00
ATOM 789	NE	ARG A	53	0.227	6.669	10.321	1.00	0.00
ATOM 790	CZ	ARG A	53	-0.796	6.496	11.155	1.00	0.00
ATOM 791	NH1	ARG A	53	-1.082	7.419	12.065	1.00	0.00
ATOM 792	NH2	ARG A	53	-1.535	5.398	11.077	1.00	0.00
ATOM 793	H	ARG A	53	2.927	5.369	7.454	1.00	0.00
ATOM 794	HA	ARG A	53	4.671	7.400	8.367	1.00	0.00
ATOM 795	1HB	ARG A	53	2.604	5.678	9.707	1.00	0.00
ATOM 796	2HB	ARG A	53	3.593	6.795	10.638	1.00	0.00
ATOM 797	1HG	ARG A	53	2.771	8.657	9.297	1.00	0.00
ATOM 798	2HG	ARG A	53	1.795	7.542	8.340	1.00	0.00
ATOM 799	1HD	ARG A	53	1.526	7.953	11.315	1.00	0.00
ATOM 800	2HD	ARG A	53	0.506	8.719	10.098	1.00	0.00
ATOM 801	HE	ARG A	53	0.416	5.972	9.659	1.00	0.00
ATOM 802	1HH1	ARG A	53	-0.530	8.249	12.129	1.00	0.00
ATOM 803	2HH1	ARG A	53	-1.853	7.283	12.688	1.00	0.00
ATOM 804	1HH2	ARG A	53	-1.323	4.700	10.393	1.00	0.00
ATOM 805	2HH2	ARG A	53	-2.304	5.267	11.704	1.00	0.00
ATOM 806	N	ASN A	54	5.633	4.395	8.907	1.00	0.00
ATOM 807	CA	ASN A	54	6.697	3.560	9.456	1.00	0.00
ATOM 808	C	ASN A	54	7.833	3.387	8.452	1.00	0.00
ATOM 809	O	ASN A	54	8.988	3.205	8.834	1.00	0.00
ATOM 810	CB	ASN A	54	6.143	2.192	9.859	1.00	0.00

ATOM 811	CG	ASN A	54	5.667	2.163	11.298	1.00	0.00
ATOM 812	OD1	ASN A	54	6.400	2.536	12.214	1.00	0.00
ATOM 813	ND2	ASN A	54	4.433	1.718	11.504	1.00	0.00
ATOM 814	H	ASN A	54	5.031	4.017	8.234	1.00	0.00
ATOM 815	HA	ASN A	54	7.083	4.053	10.335	1.00	0.00
ATOM 816	1HB	ASN A	54	5.310	1.945	9.218	1.00	0.00
ATOM 817	2HB	ASN A	54	6.917	1.448	9.739	1.00	0.00
ATOM 818	1HD2	ASN A	54	3.906	1.437	10.726	1.00	0.00
ATOM 819	2HD2	ASN A	54	4.099	1.689	12.425	1.00	0.00
ATOM 820	N	SER A	55	7.496	3.445	7.167	1.00	0.00
ATOM 821	CA	SER A	55	8.490	3.294	6.109	1.00	0.00
ATOM 822	C	SER A	55	9.589	4.345	6.238	1.00	0.00
ATOM 823	O	SER A	55	9.695	5.023	7.261	1.00	0.00
ATOM 824	CB	SER A	55	7.822	3.403	4.737	1.00	0.00
ATOM 825	OG	SER A	55	7.498	4.749	4.432	1.00	0.00
ATOM 826	H	SER A	55	6.558	3.591	6.924	1.00	0.00
ATOM 827	HA	SER A	55	8.933	2.315	6.207	1.00	0.00
ATOM 828	1HB	SER A	55	8.494	3.027	3.980	1.00	0.00
ATOM 829	2HB	SER A	55	6.914	2.817	4.733	1.00	0.00
ATOM 830	HG	SER A	55	6.764	5.033	4.981	1.00	0.00
ATOM 831	N	SER A	56	10.401	4.478	5.195	1.00	0.00
ATOM 832	CA	SER A	56	11.489	5.449	5.192	1.00	0.00
ATOM 833	C	SER A	56	11.069	6.735	4.488	1.00	0.00
ATOM 834	O	SER A	56	11.900	7.445	3.922	1.00	0.00
ATOM 835	CB	SER A	56	12.725	4.859	4.507	1.00	0.00
ATOM 836	OG	SER A	56	13.910	5.492	4.961	1.00	0.00
ATOM 837	H	SER A	56	10.265	3.910	4.407	1.00	0.00

ATOM 838	HA	SER A	56	11.732	5.677	6.219	1.00	0.00
ATOM 839	1HB	SER A	56	12.788	3.804	4.729	1.00	0.00
ATOM 840	2HB	SER A	56	12.642	4.998	3.440	1.00	0.00
ATOM 841	HG	SER A	56	14.674	5.017	4.626	1.00	0.00
ATOM 842	N	ILE A	57	9.773	7.031	4.530	1.00	0.00
ATOM 843	CA	ILE A	57	9.240	8.231	3.899	1.00	0.00
ATOM 844	C	ILE A	57	7.981	8.710	4.614	1.00	0.00
ATOM 845	O	ILE A	57	6.958	8.982	3.984	1.00	0.00
ATOM 846	CB	ILE A	57	8.916	7.987	2.411	1.00	0.00
ATOM 847	CG1	ILE A	57	7.909	6.844	2.268	1.00	0.00
ATOM 848	CG2	ILE A	57	10.188	7.680	1.635	1.00	0.00
ATOM 849	CD1	ILE A	57	7.522	6.556	0.834	1.00	0.00
ATOM 850	H	ILE A	57	9.160	6.427	4.997	1.00	0.00
ATOM 851	HA	ILE A	57	9.994	9.003	3.960	1.00	0.00
ATOM 852	HB	ILE A	57	8.486	8.890	2.006	1.00	0.00
ATOM 853	1HG1	ILE A	57	8.335	5.943	2.682	1.00	0.00
ATOM 854	2HG1	ILE A	57	7.010	7.095	2.811	1.00	0.00
ATOM 855	1HG2	ILE A	57	10.040	7.919	0.592	1.00	0.00
ATOM 856	2HG2	ILE A	57	10.426	6.631	1.733	1.00	0.00
ATOM 857	3HG2	ILE A	57	11.002	8.272	2.028	1.00	0.00
ATOM 858	1HD1	ILE A	57	6.757	5.793	0.813	1.00	0.00
ATOM 859	2HD1	ILE A	57	8.388	6.210	0.289	1.00	0.00
ATOM 860	3HD1	ILE A	57	7.143	7.457	0.374	1.00	0.00
ATOM 861	N	LYS A	58	8.062	8.810	5.938	1.00	0.00
ATOM 862	CA	LYS A	58	6.930	9.254	6.743	1.00	0.00
ATOM 863	C	LYS A	58	6.996	10.756	7.002	1.00	0.00
ATOM 864	O	LYS A	58	6.592	11.231	8.064	1.00	0.00

ATOM 865	CB	LYS A	58	6.895	8.497	8.072	1.00	0.00
ATOM 866	CG	LYS A	58	8.142	8.696	8.919	1.00	0.00
ATOM 867	CD	LYS A	58	8.875	7.384	9.154	1.00	0.00
ATOM 868	CE	LYS A	58	9.621	7.392	10.479	1.00	0.00
ATOM 869	NZ	LYS A	58	9.892	6.013	10.973	1.00	0.00
ATOM 870	H	LYS A	58	8.904	8.579	6.383	1.00	0.00
ATOM 871	HA	LYS A	58	6.027	9.036	6.193	1.00	0.00
ATOM 872	1HB	LYS A	58	6.042	8.833	8.642	1.00	0.00
ATOM 873	2HB	LYS A	58	6.787	7.442	7.868	1.00	0.00
ATOM 874	1HG	LYS A	58	8.805	9.380	8.411	1.00	0.00
ATOM 875	2HG	LYS A	58	7.854	9.113	9.873	1.00	0.00
ATOM 876	1HD	LYS A	58	8.158	6.578	9.162	1.00	0.00
ATOM 877	2HD	LYS A	58	9.583	7.230	8.353	1.00	0.00
ATOM 878	1HE	LYS A	58	10.560	7.909	10.347	1.00	0.00
ATOM 879	2HE	LYS A	58	9.023	7.916	11.211	1.00	0.00
ATOM 880	1HZ	LYS A	58	9.191	5.350	10.585	1.00	0.00
ATOM 881	2HZ	LYS A	58	9.838	5.988	12.010	1.00	0.00
ATOM 882	3HZ	LYS A	58	10.842	5.710	10.678	1.00	0.00
ATOM 883	N	SER A	59	7.507	11.499	6.027	1.00	0.00
ATOM 884	CA	SER A	59	7.624	12.948	6.148	1.00	0.00
ATOM 885	C	SER A	59	6.808	13.650	5.068	1.00	0.00
ATOM 886	O	SER A	59	6.170	14.672	5.322	1.00	0.00
ATOM 887	CB	SER A	59	9.091	13.372	6.053	1.00	0.00
ATOM 888	OG	SER A	59	9.395	14.377	7.003	1.00	0.00
ATOM 889	H	SER A	59	7.811	11.065	5.204	1.00	0.00
ATOM 890	HA	SER A	59	7.238	13.232	7.116	1.00	0.00
ATOM 891	1HB	SER A	59	9.723	12.516	6.239	1.00	0.00

ATOM 892	2HB	SER A	59	9.289	13.756	5.063	1.00	0.00
ATOM 893	HG	SER A	59	9.536	13.974	7.863	1.00	0.00
ATOM 894	N	TYR A	60	6.832	13.093	3.861	1.00	0.00
ATOM 895	CA	TYR A	60	6.095	13.663	2.740	1.00	0.00
ATOM 896	C	TYR A	60	4.834	12.853	2.450	1.00	0.00
ATOM 897	O	TYR A	60	3.816	13.402	2.030	1.00	0.00
ATOM 898	CB	TYR A	60	6.980	13.712	1.494	1.00	0.00
ATOM 899	CG	TYR A	60	7.896	14.915	1.448	1.00	0.00
ATOM 900	CD1	TYR A	60	9.240	14.776	1.122	1.00	0.00
ATOM 901	CD2	TYR A	60	7.417	16.188	1.733	1.00	0.00
ATOM 902	CE1	TYR A	60	10.080	15.872	1.080	1.00	0.00
ATOM 903	CE2	TYR A	60	8.252	17.289	1.693	1.00	0.00
ATOM 904	CZ	TYR A	60	9.582	17.125	1.366	1.00	0.00
ATOM 905	OH	TYR A	60	10.416	18.219	1.326	1.00	0.00
ATOM 906	H	TYR A	60	7.359	12.278	3.721	1.00	0.00
ATOM 907	HA	TYR A	60	5.809	14.668	3.008	1.00	0.00
ATOM 908	1HB	TYR A	60	7.595	12.826	1.462	1.00	0.00
ATOM 909	2HB	TYR A	60	6.351	13.740	0.615	1.00	0.00
ATOM 910	HD1	TYR A	60	9.627	13.793	0.898	1.00	0.00
ATOM 911	HD2	TYR A	60	6.376	16.312	1.988	1.00	0.00
ATOM 912	HE1	TYR A	60	11.121	15.745	0.824	1.00	0.00
ATOM 913	HE2	TYR A	60	7.861	18.270	1.918	1.00	0.00
ATOM 914	HH	TYR A	60	10.304	18.678	0.490	1.00	0.00
ATOM 915	N	PHE A	61	4.911	11.546	2.675	1.00	0.00
ATOM 916	CA	PHE A	61	3.776	10.661	2.436	1.00	0.00
ATOM 917	C	PHE A	61	2.581	11.065	3.294	1.00	0.00
ATOM 918	O	PHE A	61	2.713	11.275	4.500	1.00	0.00



ATOM 919	CB	PHE A	61	4.161	9.210	2.730	1.00	0.00
ATOM 920	CG	PHE A	61	3.407	8.210	1.902	1.00	0.00
ATOM 921	CD1	PHE A	61	4.081	7.327	1.072	1.00	0.00
ATOM 922	CD2	PHE A	61	2.023	8.152	1.952	1.00	0.00
ATOM 923	CE1	PHE A	61	3.389	6.406	0.309	1.00	0.00
ATOM 924	CE2	PHE A	61	1.325	7.233	1.190	1.00	0.00
ATOM 925	CZ	PHE A	61	2.010	6.360	0.367	1.00	0.00
ATOM 926	H	PHE A	61	5.750	11.167	3.009	1.00	0.00
ATOM 927	HA	PHE A	61	3.502	10.748	1.396	1.00	0.00
ATOM 928	1HB	PHE A	61	5.215	9.078	2.532	1.00	0.00
ATOM 929	2HB	PHE A	61	3.965	8.997	3.771	1.00	0.00
ATOM 930	HD1	PHE A	61	5.159	7.363	1.026	1.00	0.00
ATOM 931	HD2	PHE A	61	1.487	8.834	2.594	1.00	0.00
ATOM 932	HE1	PHE A	61	3.927	5.724	-0.333	1.00	0.00
ATOM 933	HE2	PHE A	61	0.247	7.199	1.237	1.00	0.00
ATOM 934	HZ	PHE A	61	1.467	5.641	-0.229	1.00	0.00
ATOM 935	N	SER A	62	1.417	11.171	2.664	1.00	0.00
ATOM 936	CA	SER A	62	0.197	11.548	3.369	1.00	0.00
ATOM 937	C	SER A	62	-0.656	10.321	3.676	1.00	0.00
ATOM 938	O	SER A	62	-0.927	10.016	4.837	1.00	0.00
ATOM 939	CB	SER A	62	-0.608	12.549	2.538	1.00	0.00
ATOM 940	OG	SER A	62	-1.767	12.973	3.234	1.00	0.00
ATOM 941	H	SER A	62	1.376	10.991	1.701	1.00	0.00
ATOM 942	HA	SER A	62	0.483	12.014	4.299	1.00	0.00
ATOM 943	1HB	SER A	62	0.004	13.412	2.325	1.00	0.00
ATOM 944	2HB	SER A	62	-0.910	12.083	1.611	1.00	0.00
ATOM 945	HG	SER A	62	-2.296	12.208	3.473	1.00	0.00

ATOM 946	N	ASP A	63	-1.075	9.622	2.625	1.00	0.00
ATOM 947	CA	ASP A	63	-1.897	8.427	2.783	1.00	0.00
ATOM 948	C	ASP A	63	-2.182	7.781	1.432	1.00	0.00
ATOM 949	O	ASP A	63	-1.696	8.240	0.398	1.00	0.00
ATOM 950	CB	ASP A	63	-3.213	8.776	3.482	1.00	0.00
ATOM 951	CG	ASP A	63	-3.964	9.889	2.779	1.00	0.00
ATOM 952	OD1	ASP A	63	-3.945	9.922	1.530	1.00	0.00
ATOM 953	OD2	ASP A	63	-4.571	10.729	3.477	1.00	0.00
ATOM 954	H	ASP A	63	-0.825	9.916	1.725	1.00	0.00
ATOM 955	HA	ASP A	63	-1.349	7.727	3.395	1.00	0.00
ATOM 956	1HB	ASP A	63	-3.844	7.900	3.505	1.00	0.00
ATOM 957	2HB	ASP A	63	-3.003	9.090	4.494	1.00	0.00
ATOM 958	N	CYS A	64	-2.974	6.714	1.446	1.00	0.00
ATOM 959	CA	CYS A	64	-3.324	6.005	0.220	1.00	0.00
ATOM 960	C	CYS A	64	-4.825	6.085	-0.042	1.00	0.00
ATOM 961	O	CYS A	64	-5.624	6.180	0.889	1.00	0.00
ATOM 962	CB	CYS A	64	-2.887	4.541	0.308	1.00	0.00
ATOM 963	SG	CYS A	64	-2.371	3.830	-1.272	1.00	0.00
ATOM 964	H	CYS A	64	-3.331	6.395	2.301	1.00	0.00
ATOM 965	HA	CYS A	64	-2.803	6.479	-0.597	1.00	0.00
ATOM 966	1HB	CYS A	64	-2.054	4.463	0.990	1.00	0.00
ATOM 967	2HB	CYS A	64	-3.709	3.950	0.683	1.00	0.00
ATOM 968	HG	CYS A	64	-2.834	2.997	-1.387	1.00	0.00
ATOM 969	N	GLN A	65	-5.201	6.043	-1.317	1.00	0.00
ATOM 970	CA	GLN A	65	-6.606	6.111	-1.701	1.00	0.00
ATOM 971	C	GLN A	65	-7.013	4.874	-2.495	1.00	0.00
ATOM 972	O	GLN A	65	-6.735	4.771	-3.690	1.00	0.00

ATOM 973	CB	GLN A	65	-6.870	7.371	-2.528	1.00	0.00
ATOM 974	CG	GLN A	65	-8.328	7.804	-2.530	1.00	0.00
ATOM 975	CD	GLN A	65	-8.876	8.013	-3.928	1.00	0.00
ATOM 976	OE1	GLN A	65	-8.330	8.792	-4.711	1.00	0.00
ATOM 977	NE2	GLN A	65	-9.961	7.319	-4.249	1.00	0.00
ATOM 978	H	GLN A	65	-4.518	5.966	-2.014	1.00	0.00
ATOM 979	HA	GLN A	65	-7.197	6.154	-0.799	1.00	0.00
ATOM 980	1HB	GLN A	65	-6.277	8.181	-2.130	1.00	0.00
ATOM 981	2HB	GLN A	65	-6.570	7.187	-3.550	1.00	0.00
ATOM 982	1HG	GLN A	65	-8.917	7.042	-2.041	1.00	0.00
ATOM 983	2HG	GLN A	65	-8.414	8.731	-1.982	1.00	0.00
ATOM 984	1HE2	GLN A	65	-10.342	6.718	-3.575	1.00	0.00
ATOM 985	2HE2	GLN A	65	-10.336	7.435	-5.146	1.00	0.00
ATOM 986	N	VAL A	66	-7.675	3.937	-1.824	1.00	0.00
ATOM 987	CA	VAL A	66	-8.120	2.707	-2.466	1.00	0.00
ATOM 988	C	VAL A	66	-9.248	2.984	-3.457	1.00	0.00
ATOM 989	O	VAL A	66	-10.332	3.424	-3.072	1.00	0.00
ATOM 990	CB	VAL A	66	-8.600	1.672	-1.428	1.00	0.00
ATOM 991	CG1	VAL A	66	-9.776	2.215	-0.631	1.00	0.00
ATOM 992	CG2	VAL A	66	-8.965	0.360	-2.106	1.00	0.00
ATOM 993	H	VAL A	66	-7.867	4.077	-0.872	1.00	0.00
ATOM 994	HA	VAL A	66	-7.281	2.287	-3.001	1.00	0.00
ATOM 995	HB	VAL A	66	-7.788	1.482	-0.741	1.00	0.00
ATOM 996	1HG1	VAL A	66	-9.720	1.856	0.385	1.00	0.00
ATOM 997	2HG1	VAL A	66	-10.700	1.882	-1.080	1.00	0.00
ATOM 998	3HG1	VAL A	66	-9.745	3.295	-0.633	1.00	0.00
ATOM 999	1HG2	VAL A	66	-9.369	-0.324	-1.375	1.00	0.00

ATOM 1000	2HG2	VAL	A	66	-8.082	-0.072	-2.553	1.00	0.00
ATOM 1001	3HG2	VAL	A	66	-9.703	0.544	-2.873	1.00	0.00
ATOM 1002	N	LEU	A	67	-8.984	2.725	-4.733	1.00	0.00
ATOM 1003	CA	LEU	A	67	-9.976	2.947	-5.780	1.00	0.00
ATOM 1004	C	LEU	A	67	-10.980	1.801	-5.831	1.00	0.00
ATOM 1005	O	LEU	A	67	-12.163	1.986	-5.546	1.00	0.00
ATOM 1006	CB	LEU	A	67	-9.289	3.100	-7.138	1.00	0.00
ATOM 1007	CG	LEU	A	67	-8.112	4.077	-7.163	1.00	0.00
ATOM 1008	CD1	LEU	A	67	-7.426	4.051	-8.520	1.00	0.00
ATOM 1009	CD2	LEU	A	67	-8.581	5.484	-6.827	1.00	0.00
ATOM 1010	H	LEU	A	67	-8.101	2.376	-4.978	1.00	0.00
ATOM 1011	HA	LEU	A	67	-10.503	3.861	-5.547	1.00	0.00
ATOM 1012	1HB	LEU	A	67	-8.932	2.129	-7.449	1.00	0.00
ATOM 1013	2HB	LEU	A	67	-10.024	3.440	-7.853	1.00	0.00
ATOM 1014	HG	LEU	A	67	-7.389	3.777	-6.418	1.00	0.00
ATOM 1015	1HD1	LEU	A	67	-7.224	3.029	-8.802	1.00	0.00
ATOM 1016	2HD1	LEU	A	67	-6.498	4.600	-8.464	1.00	0.00
ATOM 1017	3HD1	LEU	A	67	-8.071	4.508	-9.257	1.00	0.00
ATOM 1018	1HD2	LEU	A	67	-9.499	5.432	-6.261	1.00	0.00
ATOM 1019	2HD2	LEU	A	67	-8.751	6.036	-7.740	1.00	0.00
ATOM 1020	3HD2	LEU	A	67	-7.825	5.985	-6.239	1.00	0.00
ATOM 1021	N	ALA	A	68	-10.502	0.615	-6.196	1.00	0.00
ATOM 1022	CA	ALA	A	68	-11.360	-0.560	-6.283	1.00	0.00
ATOM 1023	C	ALA	A	68	-10.535	-1.834	-6.432	1.00	0.00
ATOM 1024	O	ALA	A	68	-9.311	-1.813	-6.298	1.00	0.00
ATOM 1025	CB	ALA	A	68	-12.329	-0.418	-7.447	1.00	0.00
ATOM 1026	H	ALA	A	68	-9.549	0.530	-6.410	1.00	0.00

ATOM 1027	HA	ALA A	68	-11.935	-0.620	-5.372	1.00	0.00
ATOM 1028	1HB	ALA A	68	-13.244	-0.946	-7.219	1.00	0.00
ATOM 1029	2HB	ALA A	68	-11.885	-0.835	-8.339	1.00	0.00
ATOM 1030	3HB	ALA A	68	-12.548	0.627	-7.608	1.00	0.00
ATOM 1031	N	PHE A	69	-11.213	-2.943	-6.710	1.00	0.00
ATOM 1032	CA	PHE A	69	-10.544	-4.228	-6.877	1.00	0.00
ATOM 1033	C	PHE A	69	-10.833	-4.819	-8.253	1.00	0.00
ATOM 1034	O	PHE A	69	-11.976	-4.821	-8.710	1.00	0.00
ATOM 1035	CB	PHE A	69	-10.990	-5.205	-5.786	1.00	0.00
ATOM 1036	CG	PHE A	69	-10.649	-4.750	-4.396	1.00	0.00
ATOM 1037	CD1	PHE A	69	-11.583	-4.077	-3.625	1.00	0.00
ATOM 1038	CD2	PHE A	69	-9.395	-4.994	-3.860	1.00	0.00
ATOM 1039	CE1	PHE A	69	-11.274	-3.657	-2.345	1.00	0.00
ATOM 1040	CE2	PHE A	69	-9.079	-4.578	-2.581	1.00	0.00
ATOM 1041	CZ	PHE A	69	-10.020	-3.908	-1.822	1.00	0.00
ATOM 1042	H	PHE A	69	-12.187	-2.896	-6.805	1.00	0.00
ATOM 1043	HA	PHE A	69	-9.480	-4.063	-6.786	1.00	0.00
ATOM 1044	1HB	PHE A	69	-12.061	-5.329	-5.841	1.00	0.00
ATOM 1045	2HB	PHE A	69	-10.513	-6.159	-5.951	1.00	0.00
ATOM 1046	HD1	PHE A	69	-12.564	-3.881	-4.032	1.00	0.00
ATOM 1047	HD2	PHE A	69	-8.658	-5.518	-4.452	1.00	0.00
ATOM 1048	HE1	PHE A	69	-12.010	-3.134	-1.754	1.00	0.00
ATOM 1049	HE2	PHE A	69	-8.098	-4.774	-2.175	1.00	0.00
ATOM 1050	HZ	PHE A	69	-9.775	-3.582	-0.822	1.00	0.00
ATOM 1051	N	ARG A	70	-9.791	-5.319	-8.908	1.00	0.00
ATOM 1052	CA	ARG A	70	-9.934	-5.913	-10.232	1.00	0.00
ATOM 1053	C	ARG A	70	-9.914	-7.436	-10.151	1.00	0.00

ATOM	1054	O	ARG	A	70	-9.460	-8.008	-9.159	1.00	0.00
ATOM	1055	CB	ARG	A	70	-8.817	-5.426	-11.157	1.00	0.00
ATOM	1056	CG	ARG	A	70	-8.675	-3.913	-11.196	1.00	0.00
ATOM	1057	CD	ARG	A	70	-9.934	-3.249	-11.729	1.00	0.00
ATOM	1058	NE	ARG	A	70	-10.067	-3.407	-13.175	1.00	0.00
ATOM	1059	CZ	ARG	A	70	-11.209	-3.237	-13.837	1.00	0.00
ATOM	1060	NH1	ARG	A	70	-12.318	-2.904	-13.190	1.00	0.00
ATOM	1061	NH2	ARG	A	70	-11.241	-3.399	-15.153	1.00	0.00
ATOM	1062	H	ARG	A	70	-8.905	-5.289	-8.492	1.00	0.00
ATOM	1063	HA	ARG	A	70	-10.885	-5.598	-10.636	1.00	0.00
ATOM	1064	1HB	ARG	A	70	-7.879	-5.846	-10.821	1.00	0.00
ATOM	1065	2HB	ARG	A	70	-9.017	-5.774	-12.160	1.00	0.00
ATOM	1066	1HG	ARG	A	70	-8.486	-3.553	-10.196	1.00	0.00
ATOM	1067	2HG	ARG	A	70	-7.843	-3.656	-11.836	1.00	0.00
ATOM	1068	1HD	ARG	A	70	-10.792	-3.695	-11.248	1.00	0.00
ATOM	1069	2HD	ARG	A	70	-9.897	-2.196	-11.492	1.00	0.00
ATOM	1070	HE	ARG	A	70	-9.264	-3.652	-13.679	1.00	0.00
ATOM	1071	1HH1	ARG	A	70	-12.300	-2.780	-12.197	1.00	0.00
ATOM	1072	2HH1	ARG	A	70	-13.173	-2.778	-13.693	1.00	0.00
ATOM	1073	1HH2	ARG	A	70	-10.409	-3.649	-15.647	1.00	0.00
ATOM	1074	2HH2	ARG	A	70	-12.100	-3.273	-15.652	1.00	0.00
ATOM	1075	N	SER	A	71	-10.410	-8.087	-11.197	1.00	0.00
ATOM	1076	CA	SER	A	71	-10.450	-9.544	-11.242	1.00	0.00
ATOM	1077	C	SER	A	71	-9.399	-10.088	-12.206	1.00	0.00
ATOM	1078	O	SER	A	71	-9.258	-9.601	-13.327	1.00	0.00
ATOM	1079	CB	SER	A	71	-11.841	-10.024	-11.662	1.00	0.00
ATOM	1080	OG	SER	A	71	-11.883	-11.437	-11.765	1.00	0.00

ATOM 1081	H	SER A	71	-10.757	-7.576	-11.957	1.00	0.00
ATOM 1082	HA	SER A	71	-10.236	-9.913	-10.251	1.00	0.00
ATOM 1083	1HB	SER A	71	-12.565	-9.707	-10.927	1.00	0.00
ATOM 1084	2HB	SER A	71	-12.090	-9.598	-12.622	1.00	0.00
ATOM 1085	HG	SER A	71	-12.422	-11.793	-11.053	1.00	0.00
ATOM 1086	N	VAL A	72	-8.663	-11.102	-11.760	1.00	0.00
ATOM 1087	CA	VAL A	72	-7.624	-11.711	-12.583	1.00	0.00
ATOM 1088	C	VAL A	72	-8.123	-12.998	-13.234	1.00	0.00
ATOM 1089	O	VAL A	72	-9.055	-13.633	-12.742	1.00	0.00
ATOM 1090	CB	VAL A	72	-6.362	-12.023	-11.758	1.00	0.00
ATOM 1091	CG1	VAL A	72	-5.728	-10.739	-11.243	1.00	0.00
ATOM 1092	CG2	VAL A	72	-6.692	-12.962	-10.608	1.00	0.00
ATOM 1093	H	VAL A	72	-8.821	-11.448	-10.857	1.00	0.00
ATOM 1094	HA	VAL A	72	-7.359	-11.008	-13.358	1.00	0.00
ATOM 1095	HB	VAL A	72	-5.648	-12.515	-12.403	1.00	0.00
ATOM 1096	1HG1	VAL A	72	-6.116	-9.898	-11.798	1.00	0.00
ATOM 1097	2HG1	VAL A	72	-4.657	-10.790	-11.370	1.00	0.00
ATOM 1098	3HG1	VAL A	72	-5.961	-10.617	-10.195	1.00	0.00
ATOM 1099	1HG2	VAL A	72	-5.835	-13.585	-10.395	1.00	0.00
ATOM 1100	2HG2	VAL A	72	-7.531	-13.584	-10.880	1.00	0.00
ATOM 1101	3HG2	VAL A	72	-6.943	-12.383	-9.730	1.00	0.00
ATOM 1102	N	SER A	73	-7.495	-13.375	-14.343	1.00	0.00
ATOM 1103	CA	SER A	73	-7.873	-14.587	-15.061	1.00	0.00
ATOM 1104	C	SER A	73	-6.725	-15.592	-15.075	1.00	0.00
ATOM 1105	O	SER A	73	-5.898	-15.591	-15.986	1.00	0.00
ATOM 1106	CB	SER A	73	-8.285	-14.246	-16.495	1.00	0.00
ATOM 1107	OG	SER A	73	-9.453	-13.444	-16.514	1.00	0.00

ATOM 1108	H	SER A	73	-6.759	-12.827	-14.685	1.00	0.00
ATOM 1109	HA	SER A	73	-8.715	-15.028	-14.549	1.00	0.00
ATOM 1110	1HB	SER A	73	-7.485	-13.706	-16.979	1.00	0.00
ATOM 1111	2HB	SER A	73	-8.483	-15.160	-17.037	1.00	0.00
ATOM 1112	N	ASN A	74	-6.681	-16.447	-14.059	1.00	0.00
ATOM 1113	CA	ASN A	74	-5.634	-17.456	-13.954	1.00	0.00
ATOM 1114	C	ASN A	74	-6.003	-18.519	-12.925	1.00	0.00
ATOM 1115	O	ASN A	74	-6.282	-19.666	-13.274	1.00	0.00
ATOM 1116	CB	ASN A	74	-4.303	-16.803	-13.578	1.00	0.00
ATOM 1117	CG	ASN A	74	-3.139	-17.359	-14.375	1.00	0.00
ATOM 1118	OD1	ASN A	74	-2.878	-18.563	-14.357	1.00	0.00
ATOM 1119	ND2	ASN A	74	-2.433	-16.484	-15.080	1.00	0.00
ATOM 1120	H	ASN A	74	-7.369	-16.398	-13.363	1.00	0.00
ATOM 1121	HA	ASN A	74	-5.532	-17.928	-14.921	1.00	0.00
ATOM 1122	1HB	ASN A	74	-4.366	-15.741	-13.762	1.00	0.00
ATOM 1123	2HB	ASN A	74	-4.110	-16.971	-12.528	1.00	0.00
ATOM 1124	1HD2	ASN A	74	-2.699	-15.541	-15.048	1.00	0.00
ATOM 1125	2HD2	ASN A	74	-1.675	-16.816	-15.605	1.00	0.00
ATOM 1126	N	ASN A	75	-6.004	-18.129	-11.655	1.00	0.00
ATOM 1127	CA	ASN A	75	-6.340	-19.048	-10.572	1.00	0.00
ATOM 1128	C	ASN A	75	-7.729	-18.755	-10.011	1.00	0.00
ATOM 1129	O	ASN A	75	-8.334	-19.603	-9.355	1.00	0.00
ATOM 1130	CB	ASN A	75	-5.297	-18.955	-9.457	1.00	0.00
ATOM 1131	CG	ASN A	75	-4.919	-20.317	-8.904	1.00	0.00
ATOM 1132	OD1	ASN A	75	-3.964	-20.943	-9.365	1.00	0.00
ATOM 1133	ND2	ASN A	75	-5.670	-20.782	-7.913	1.00	0.00
ATOM 1134	H	ASN A	75	-5.774	-17.202	-11.440	1.00	0.00



ATOM	1135	HA	ASN	A	75	-6.332	-20.050	-10.976	1.00	0.00
ATOM	1136	1HB	ASN	A	75	-4.405	-18.486	-9.843	1.00	0.00
ATOM	1137	2HB	ASN	A	75	-5.693	-18.357	-8.649	1.00	0.00
ATOM	1138	1HD2	ASN	A	75	-6.415	-20.229	-7.598	1.00	0.00
ATOM	1139	2HD2	ASN	A	75	-5.449	-21.660	-7.538	1.00	0.00
ATOM	1140	N	ASN	A	76	-8.232	-17.551	-10.272	1.00	0.00
ATOM	1141	CA	ASN	A	76	-9.550	-17.150	-9.791	1.00	0.00
ATOM	1142	C	ASN	A	76	-9.588	-17.116	-8.266	1.00	0.00
ATOM	1143	O	ASN	A	76	-10.632	-17.349	-7.656	1.00	0.00
ATOM	1144	CB	ASN	A	76	-10.624	-18.105	-10.319	1.00	0.00
ATOM	1145	CG	ASN	A	76	-11.230	-17.629	-11.625	1.00	0.00
ATOM	1146	OD1	ASN	A	76	-11.292	-18.375	-12.602	1.00	0.00
ATOM	1147	ND2	ASN	A	76	-11.682	-16.381	-11.648	1.00	0.00
ATOM	1148	H	ASN	A	76	-7.704	-16.915	-10.799	1.00	0.00
ATOM	1149	HA	ASN	A	76	-9.750	-16.158	-10.165	1.00	0.00
ATOM	1150	1HB	ASN	A	76	-10.184	-19.077	-10.483	1.00	0.00
ATOM	1151	2HB	ASN	A	76	-11.413	-18.190	-9.586	1.00	0.00
ATOM	1152	1HD2	ASN	A	76	-11.601	-15.844	-10.832	1.00	0.00
ATOM	1153	2HD2	ASN	A	76	-12.079	-16.047	-12.479	1.00	0.00
ATOM	1154	N	ASN	A	77	-8.444	-16.823	-7.656	1.00	0.00
ATOM	1155	CA	ASN	A	77	-8.349	-16.757	-6.202	1.00	0.00
ATOM	1156	C	ASN	A	77	-7.531	-15.545	-5.759	1.00	0.00
ATOM	1157	O	ASN	A	77	-7.043	-15.497	-4.630	1.00	0.00
ATOM	1158	CB	ASN	A	77	-7.719	-18.038	-5.653	1.00	0.00
ATOM	1159	CG	ASN	A	77	-8.047	-18.262	-4.190	1.00	0.00
ATOM	1160	OD1	ASN	A	77	-7.153	-18.398	-3.355	1.00	0.00
ATOM	1161	ND2	ASN	A	77	-9.336	-18.301	-3.871	1.00	0.00

ATOM	1162	H	ASN	A	77	-7.646	-16.646	-8.195	1.00	0.00
ATOM	1163	HA	ASN	A	77	-9.351	-16.662	-5.809	1.00	0.00
ATOM	1164	1HB	ASN	A	77	-8.086	-18.882	-6.217	1.00	0.00
ATOM	1165	2HB	ASN	A	77	-6.646	-17.978	-5.757	1.00	0.00
ATOM	1166	1HD2	ASN	A	77	-9.994	-18.185	-4.588	1.00	0.00
ATOM	1167	2HD2	ASN	A	77	-9.577	-18.444	-2.932	1.00	0.00
ATOM	1168	N	HIS	A	78	-7.386	-14.570	-6.651	1.00	0.00
ATOM	1169	CA	HIS	A	78	-6.627	-13.361	-6.345	1.00	0.00
ATOM	1170	C	HIS	A	78	-7.507	-12.122	-6.471	1.00	0.00
ATOM	1171	O	HIS	A	78	-8.712	-12.226	-6.698	1.00	0.00
ATOM	1172	CB	HIS	A	78	-5.421	-13.240	-7.278	1.00	0.00
ATOM	1173	CG	HIS	A	78	-4.509	-14.428	-7.237	1.00	0.00
ATOM	1174	ND1	HIS	A	78	-3.585	-14.701	-8.224	1.00	0.00
ATOM	1175	CD2	HIS	A	78	-4.382	-15.417	-6.320	1.00	0.00
ATOM	1176	CE1	HIS	A	78	-2.930	-15.807	-7.917	1.00	0.00
ATOM	1177	NE2	HIS	A	78	-3.394	-16.260	-6.768	1.00	0.00
ATOM	1178	H	HIS	A	78	-7.798	-14.662	-7.534	1.00	0.00
ATOM	1179	HA	HIS	A	78	-6.277	-13.438	-5.326	1.00	0.00
ATOM	1180	1HB	HIS	A	78	-5.770	-13.125	-8.292	1.00	0.00
ATOM	1181	2HB	HIS	A	78	-4.846	-12.370	-6.999	1.00	0.00
ATOM	1182	HD1	HIS	A	78	-3.432	-14.165	-9.029	1.00	0.00
ATOM	1183	HD2	HIS	A	78	-4.949	-15.523	-5.408	1.00	0.00
ATOM	1184	HE1	HIS	A	78	-2.147	-16.262	-8.507	1.00	0.00
ATOM	1185	HE2	HIS	A	78	-3.023	-17.017	-6.268	1.00	0.00
ATOM	1186	N	THR	A	79	-6.898	-10.949	-6.322	1.00	0.00
ATOM	1187	CA	THR	A	79	-7.629	-9.691	-6.420	1.00	0.00
ATOM	1188	C	THR	A	79	-6.692	-8.545	-6.788	1.00	0.00

ATOM	1189	O	THR	A	79	-5.798	-8.189	-6.020	1.00	0.00
ATOM	1190	CB	THR	A	79	-8.333	-9.383	-5.098	1.00	0.00
ATOM	1191	OG1	THR	A	79	-8.974	-10.540	-4.589	1.00	0.00
ATOM	1192	CG2	THR	A	79	-9.378	-8.295	-5.216	1.00	0.00
ATOM	1193	H	THR	A	79	-5.935	-10.931	-6.142	1.00	0.00
ATOM	1194	HA	THR	A	79	-8.371	-9.798	-7.196	1.00	0.00
ATOM	1195	HB	THR	A	79	-7.598	-9.058	-4.376	1.00	0.00
ATOM	1196	HG1	THR	A	79	-9.627	-10.849	-5.221	1.00	0.00
ATOM	1197	1HG2	THR	A	79	-9.955	-8.447	-6.116	1.00	0.00
ATOM	1198	2HG2	THR	A	79	-8.892	-7.332	-5.259	1.00	0.00
ATOM	1199	3HG2	THR	A	79	-10.033	-8.330	-4.358	1.00	0.00
ATOM	1200	N	GLY	A	80	-6.905	-7.969	-7.967	1.00	0.00
ATOM	1201	CA	GLY	A	80	-6.073	-6.867	-8.416	1.00	0.00
ATOM	1202	C	GLY	A	80	-6.349	-5.588	-7.653	1.00	0.00
ATOM	1203	O	GLY	A	80	-7.372	-4.938	-7.865	1.00	0.00
ATOM	1204	H	GLY	A	80	-7.633	-8.295	-8.537	1.00	0.00
ATOM	1205	1HA	GLY	A	80	-5.036	-7.137	-8.283	1.00	0.00
ATOM	1206	2HA	GLY	A	80	-6.259	-6.695	-9.466	1.00	0.00
ATOM	1207	N	VAL	A	81	-5.434	-5.225	-6.759	1.00	0.00
ATOM	1208	CA	VAL	A	81	-5.585	-4.016	-5.959	1.00	0.00
ATOM	1209	C	VAL	A	81	-5.354	-2.766	-6.800	1.00	0.00
ATOM	1210	O	VAL	A	81	-4.396	-2.688	-7.567	1.00	0.00
ATOM	1211	CB	VAL	A	81	-4.610	-4.005	-4.765	1.00	0.00
ATOM	1212	CG1	VAL	A	81	-4.845	-2.783	-3.889	1.00	0.00
ATOM	1213	CG2	VAL	A	81	-4.746	-5.285	-3.954	1.00	0.00
ATOM	1214	H	VAL	A	81	-4.640	-5.786	-6.634	1.00	0.00
ATOM	1215	HA	VAL	A	81	-6.593	-3.997	-5.572	1.00	0.00

ATOM	1216	HB	VAL	A	81	-3.602	-3.955	-5.150	1.00	0.00
ATOM	1217	1HG1	VAL	A	81	-5.885	-2.493	-3.946	1.00	0.00
ATOM	1218	2HG1	VAL	A	81	-4.225	-1.967	-4.232	1.00	0.00
ATOM	1219	3HG1	VAL	A	81	-4.595	-3.020	-2.865	1.00	0.00
ATOM	1220	1HG2	VAL	A	81	-4.834	-6.127	-4.624	1.00	0.00
ATOM	1221	2HG2	VAL	A	81	-5.626	-5.225	-3.333	1.00	0.00
ATOM	1222	3HG2	VAL	A	81	-3.873	-5.409	-3.332	1.00	0.00
ATOM	1223	N	ASP	A	82	-6.238	-1.788	-6.641	1.00	0.00
ATOM	1224	CA	ASP	A	82	-6.136	-0.531	-7.373	1.00	0.00
ATOM	1225	C	ASP	A	82	-6.167	0.649	-6.409	1.00	0.00
ATOM	1226	O	ASP	A	82	-7.180	1.337	-6.284	1.00	0.00
ATOM	1227	CB	ASP	A	82	-7.275	-0.411	-8.387	1.00	0.00
ATOM	1228	CG	ASP	A	82	-6.939	-1.062	-9.715	1.00	0.00
ATOM	1229	OD1	ASP	A	82	-6.413	-2.194	-9.704	1.00	0.00
ATOM	1230	OD2	ASP	A	82	-7.204	-0.439	-10.764	1.00	0.00
ATOM	1231	H	ASP	A	82	-6.977	-1.911	-6.008	1.00	0.00
ATOM	1232	HA	ASP	A	82	-5.193	-0.529	-7.899	1.00	0.00
ATOM	1233	1HB	ASP	A	82	-8.158	-0.889	-7.987	1.00	0.00
ATOM	1234	2HB	ASP	A	82	-7.486	0.634	-8.562	1.00	0.00
ATOM	1235	N	SER	A	83	-5.051	0.870	-5.722	1.00	0.00
ATOM	1236	CA	SER	A	83	-4.948	1.960	-4.759	1.00	0.00
ATOM	1237	C	SER	A	83	-4.231	3.161	-5.365	1.00	0.00
ATOM	1238	O	SER	A	83	-3.884	3.161	-6.546	1.00	0.00
ATOM	1239	CB	SER	A	83	-4.210	1.487	-3.505	1.00	0.00
ATOM	1240	OG	SER	A	83	-3.273	0.472	-3.818	1.00	0.00
ATOM	1241	H	SER	A	83	-4.279	0.283	-5.861	1.00	0.00
ATOM	1242	HA	SER	A	83	-5.950	2.255	-4.485	1.00	0.00

ATOM	1243	1HB	SER	A	83	-3.684	2.320	-3.065	1.00	0.00
ATOM	1244	2HB	SER	A	83	-4.924	1.096	-2.795	1.00	0.00
ATOM	1245	HG	SER	A	83	-2.880	0.138	-3.008	1.00	0.00
ATOM	1246	N	LEU	A	84	-4.017	4.187	-4.547	1.00	0.00
ATOM	1247	CA	LEU	A	84	-3.345	5.400	-4.999	1.00	0.00
ATOM	1248	C	LEU	A	84	-2.383	5.921	-3.935	1.00	0.00
ATOM	1249	O	LEU	A	84	-2.803	6.314	-2.847	1.00	0.00
ATOM	1250	CB	LEU	A	84	-4.378	6.477	-5.340	1.00	0.00
ATOM	1251	CG	LEU	A	84	-3.852	7.647	-6.174	1.00	0.00
ATOM	1252	CD1	LEU	A	84	-2.877	8.489	-5.365	1.00	0.00
ATOM	1253	CD2	LEU	A	84	-3.192	7.139	-7.448	1.00	0.00
ATOM	1254	H	LEU	A	84	-4.320	4.128	-3.616	1.00	0.00
ATOM	1255	HA	LEU	A	84	-2.784	5.157	-5.889	1.00	0.00
ATOM	1256	1HB	LEU	A	84	-5.186	6.010	-5.884	1.00	0.00
ATOM	1257	2HB	LEU	A	84	-4.772	6.873	-4.416	1.00	0.00
ATOM	1258	HG	LEU	A	84	-4.682	8.280	-6.457	1.00	0.00
ATOM	1259	1HD1	LEU	A	84	-3.054	9.535	-5.561	1.00	0.00
ATOM	1260	2HD1	LEU	A	84	-1.865	8.237	-5.645	1.00	0.00
ATOM	1261	3HD1	LEU	A	84	-3.018	8.290	-4.312	1.00	0.00
ATOM	1262	1HD2	LEU	A	84	-3.258	7.897	-8.214	1.00	0.00
ATOM	1263	2HD2	LEU	A	84	-3.696	6.245	-7.782	1.00	0.00
ATOM	1264	3HD2	LEU	A	84	-2.155	6.916	-7.250	1.00	0.00
ATOM	1265	N	CYS	A	85	-1.093	5.926	-4.256	1.00	0.00
ATOM	1266	CA	CYS	A	85	-0.079	6.405	-3.324	1.00	0.00
ATOM	1267	C	CYS	A	85	-0.102	7.928	-3.245	1.00	0.00
ATOM	1268	O	CYS	A	85	0.738	8.605	-3.840	1.00	0.00
ATOM	1269	CB	CYS	A	85	1.311	5.923	-3.747	1.00	0.00

ATOM	1270	SG	CYS	A	85	1.680	4.227	-3.244	1.00	0.00
ATOM	1271	H	CYS	A	85	-0.818	5.604	-5.140	1.00	0.00
ATOM	1272	HA	CYS	A	85	-0.308	6.000	-2.351	1.00	0.00
ATOM	1273	1HB	CYS	A	85	1.392	5.973	-4.822	1.00	0.00
ATOM	1274	2HB	CYS	A	85	2.058	6.565	-3.306	1.00	0.00
ATOM	1275	HG	CYS	A	85	2.403	3.908	-3.789	1.00	0.00
ATOM	1276	N	ASN	A	86	-1.073	8.463	-2.509	1.00	0.00
ATOM	1277	CA	ASN	A	86	-1.212	9.906	-2.355	1.00	0.00
ATOM	1278	C	ASN	A	86	-0.077	10.480	-1.513	1.00	0.00
ATOM	1279	O	ASN	A	86	0.403	9.838	-0.580	1.00	0.00
ATOM	1280	CB	ASN	A	86	-2.558	10.243	-1.712	1.00	0.00
ATOM	1281	CG	ASN	A	86	-3.632	10.537	-2.740	1.00	0.00
ATOM	1282	OD1	ASN	A	86	-3.689	11.631	-3.299	1.00	0.00
ATOM	1283	ND2	ASN	A	86	-4.493	9.558	-2.993	1.00	0.00
ATOM	1284	H	ASN	A	86	-1.713	7.871	-2.064	1.00	0.00
ATOM	1285	HA	ASN	A	86	-1.173	10.350	-3.339	1.00	0.00
ATOM	1286	1HB	ASN	A	86	-2.881	9.407	-1.110	1.00	0.00
ATOM	1287	2HB	ASN	A	86	-2.442	11.112	-1.081	1.00	0.00
ATOM	1288	1HD2	ASN	A	86	-4.387	8.712	-2.509	1.00	0.00
ATOM	1289	2HD2	ASN	A	86	-5.197	9.720	-3.654	1.00	0.00
ATOM	1290	N	PHE	A	87	0.342	11.696	-1.849	1.00	0.00
ATOM	1291	CA	PHE	A	87	1.418	12.360	-1.121	1.00	0.00
ATOM	1292	C	PHE	A	87	1.037	13.796	-0.780	1.00	0.00
ATOM	1293	O	PHE	A	87	-0.057	14.254	-1.108	1.00	0.00
ATOM	1294	CB	PHE	A	87	2.706	12.345	-1.946	1.00	0.00
ATOM	1295	CG	PHE	A	87	3.547	11.123	-1.717	1.00	0.00
ATOM	1296	CD1	PHE	A	87	4.799	11.226	-1.134	1.00	0.00

ATOM 1297	CD2	PHE A	87	3.083	9.871	-2.086	1.00	0.00
ATOM 1298	CE1	PHE A	87	5.574	10.102	-0.923	1.00	0.00
ATOM 1299	CE2	PHE A	87	3.853	8.743	-1.877	1.00	0.00
ATOM 1300	CZ	PHE A	87	5.101	8.859	-1.295	1.00	0.00
ATOM 1301	H	PHE A	87	-0.082	12.158	-2.602	1.00	0.00
ATOM 1302	HA	PHE A	87	1.582	11.815	-0.204	1.00	0.00
ATOM 1303	1HB	PHE A	87	2.455	12.385	-2.995	1.00	0.00
ATOM 1304	2HB	PHE A	87	3.299	13.211	-1.689	1.00	0.00
ATOM 1305	HD1	PHE A	87	5.169	12.197	-0.843	1.00	0.00
ATOM 1306	HD2	PHE A	87	2.109	9.780	-2.542	1.00	0.00
ATOM 1307	HE1	PHE A	87	6.549	10.195	-0.468	1.00	0.00
ATOM 1308	HE2	PHE A	87	3.480	7.771	-2.170	1.00	0.00
ATOM 1309	HZ	PHE A	87	5.705	7.980	-1.129	1.00	0.00
ATOM 1310	N	SER A	88	1.946	14.502	-0.115	1.00	0.00
ATOM 1311	CA	SER A	88	1.705	15.887	0.272	1.00	0.00
ATOM 1312	C	SER A	88	2.215	16.849	-0.796	1.00	0.00
ATOM 1313	O	SER A	88	3.068	16.492	-1.609	1.00	0.00
ATOM 1314	CB	SER A	88	2.380	16.188	1.611	1.00	0.00
ATOM 1315	OG	SER A	88	1.510	15.913	2.695	1.00	0.00
ATOM 1316	H	SER A	88	2.800	14.081	0.119	1.00	0.00
ATOM 1317	HA	SER A	88	0.639	16.019	0.380	1.00	0.00
ATOM 1318	1HB	SER A	88	3.265	15.577	1.712	1.00	0.00
ATOM 1319	2HB	SER A	88	2.659	17.231	1.644	1.00	0.00
ATOM 1320	HG	SER A	88	1.301	14.976	2.708	1.00	0.00
ATOM 1321	N	PRO A	89	1.698	18.090	-0.809	1.00	0.00
ATOM 1322	CA	PRO A	89	2.107	19.104	-1.785	1.00	0.00
ATOM 1323	C	PRO A	89	3.532	19.594	-1.550	1.00	0.00

ATOM 1324	O	PRO A	89	4.207	20.040	-2.478	1.00	0.00
ATOM 1325	CB	PRO A	89	1.106	20.240	-1.559	1.00	0.00
ATOM 1326	CG	PRO A	89	0.663	20.078	-0.146	1.00	0.00
ATOM 1327	CD	PRO A	89	0.677	18.599	0.126	1.00	0.00
ATOM 1328	HA	PRO A	89	2.016	18.737	-2.797	1.00	0.00
ATOM 1329	1HB	PRO A	89	1.595	21.191	-1.714	1.00	0.00
ATOM 1330	2HB	PRO A	89	0.280	20.137	-2.246	1.00	0.00
ATOM 1331	1HG	PRO A	89	1.348	20.588	0.514	1.00	0.00
ATOM 1332	2HG	PRO A	89	-0.337	20.471	-0.028	1.00	0.00
ATOM 1333	1HD	PRO A	89	0.962	18.407	1.150	1.00	0.00
ATOM 1334	2HD	PRO A	89	-0.289	18.167	-0.087	1.00	0.00
ATOM 1335	N	LEU A	90	3.984	19.510	-0.303	1.00	0.00
ATOM 1336	CA	LEU A	90	5.329	19.946	0.053	1.00	0.00
ATOM 1337	C	LEU A	90	6.380	19.163	-0.728	1.00	0.00
ATOM 1338	O	LEU A	90	7.412	19.709	-1.119	1.00	0.00
ATOM 1339	CB	LEU A	90	5.564	19.773	1.555	1.00	0.00
ATOM 1340	CG	LEU A	90	4.871	20.809	2.442	1.00	0.00
ATOM 1341	CD1	LEU A	90	3.434	20.398	2.718	1.00	0.00
ATOM 1342	CD2	LEU A	90	5.637	20.991	3.744	1.00	0.00
ATOM 1343	H	LEU A	90	3.399	19.146	0.394	1.00	0.00
ATOM 1344	HA	LEU A	90	5.417	20.992	-0.197	1.00	0.00
ATOM 1345	1HB	LEU A	90	5.214	18.792	1.842	1.00	0.00
ATOM 1346	2HB	LEU A	90	6.626	19.827	1.741	1.00	0.00
ATOM 1347	HG	LEU A	90	4.854	21.759	1.929	1.00	0.00
ATOM 1348	1HD1	LEU A	90	3.007	21.058	3.458	1.00	0.00
ATOM 1349	2HD1	LEU A	90	3.415	19.383	3.088	1.00	0.00
ATOM 1350	3HD1	LEU A	90	2.860	20.461	1.806	1.00	0.00



ATOM	1351	1HD2	LEU	A	90	4.942	21.198	4.545	1.00	0.00
ATOM	1352	2HD2	LEU	A	90	6.328	21.814	3.644	1.00	0.00
ATOM	1353	3HD2	LEU	A	90	6.184	20.087	3.969	1.00	0.00
ATOM	1354	N	ALA	A	91	6.110	17.880	-0.953	1.00	0.00
ATOM	1355	CA	ALA	A	91	7.033	17.022	-1.686	1.00	0.00
ATOM	1356	C	ALA	A	91	6.967	17.297	-3.185	1.00	0.00
ATOM	1357	O	ALA	A	91	6.177	18.125	-3.640	1.00	0.00
ATOM	1358	CB	ALA	A	91	6.728	15.559	-1.401	1.00	0.00
ATOM	1359	H	ALA	A	91	5.272	17.503	-0.615	1.00	0.00
ATOM	1360	HA	ALA	A	91	8.033	17.232	-1.336	1.00	0.00
ATOM	1361	1HB	ALA	A	91	6.216	15.125	-2.249	1.00	0.00
ATOM	1362	2HB	ALA	A	91	6.100	15.486	-0.526	1.00	0.00
ATOM	1363	3HB	ALA	A	91	7.651	15.026	-1.228	1.00	0.00
ATOM	1364	N	ARG	A	92	7.801	16.596	-3.946	1.00	0.00
ATOM	1365	CA	ARG	A	92	7.839	16.763	-5.395	1.00	0.00
ATOM	1366	C	ARG	A	92	8.857	15.817	-6.026	1.00	0.00
ATOM	1367	O	ARG	A	92	8.623	15.266	-7.103	1.00	0.00
ATOM	1368	CB	ARG	A	92	8.177	18.212	-5.756	1.00	0.00
ATOM	1369	CG	ARG	A	92	7.274	18.798	-6.830	1.00	0.00
ATOM	1370	CD	ARG	A	92	8.016	19.805	-7.692	1.00	0.00
ATOM	1371	NE	ARG	A	92	7.139	20.435	-8.676	1.00	0.00
ATOM	1372	CZ	ARG	A	92	6.752	19.850	-9.807	1.00	0.00
ATOM	1373	NH1	ARG	A	92	7.163	18.622	-10.101	1.00	0.00
ATOM	1374	NH2	ARG	A	92	5.951	20.492	-10.647	1.00	0.00
ATOM	1375	H	ARG	A	92	8.406	15.952	-3.524	1.00	0.00
ATOM	1376	HA	ARG	A	92	6.859	16.526	-5.781	1.00	0.00
ATOM	1377	1HB	ARG	A	92	8.088	18.822	-4.869	1.00	0.00

ATOM	1378	2HB	ARG	A	92	9.196	18.256	-6.110	1.00	0.00
ATOM	1379	1HG	ARG	A	92	6.913	17.997	-7.458	1.00	0.00
ATOM	1380	2HG	ARG	A	92	6.439	19.289	-6.354	1.00	0.00
ATOM	1381	1HD	ARG	A	92	8.432	20.570	-7.054	1.00	0.00
ATOM	1382	2HD	ARG	A	92	8.816	19.296	-8.211	1.00	0.00
ATOM	1383	HE	ARG	A	92	6.820	21.342	-8.484	1.00	0.00
ATOM	1384	1HH1	ARG	A	92	7.765	18.132	-9.473	1.00	0.00
ATOM	1385	2HH1	ARG	A	92	6.869	18.188	-10.953	1.00	0.00
ATOM	1386	1HH2	ARG	A	92	5.638	21.417	-10.429	1.00	0.00
ATOM	1387	2HH2	ARG	A	92	5.662	20.053	-11.496	1.00	0.00
ATOM	1388	N	ARG	A	93	9.987	15.634	-5.352	1.00	0.00
ATOM	1389	CA	ARG	A	93	11.041	14.757	-5.849	1.00	0.00
ATOM	1390	C	ARG	A	93	10.859	13.334	-5.323	1.00	0.00
ATOM	1391	O	ARG	A	93	11.793	12.729	-4.795	1.00	0.00
ATOM	1392	CB	ARG	A	93	12.415	15.302	-5.447	1.00	0.00
ATOM	1393	CG	ARG	A	93	13.207	15.869	-6.615	1.00	0.00
ATOM	1394	CD	ARG	A	93	13.176	17.389	-6.626	1.00	0.00
ATOM	1395	NE	ARG	A	93	14.388	17.965	-6.049	1.00	0.00
ATOM	1396	CZ	ARG	A	93	14.488	19.230	-5.645	1.00	0.00
ATOM	1397	NH1	ARG	A	93	13.452	20.052	-5.753	1.00	0.00
ATOM	1398	NH2	ARG	A	93	15.628	19.672	-5.132	1.00	0.00
ATOM	1399	H	ARG	A	93	10.117	16.102	-4.500	1.00	0.00
ATOM	1400	HA	ARG	A	93	10.973	14.739	-6.926	1.00	0.00
ATOM	1401	1HB	ARG	A	93	12.278	16.088	-4.719	1.00	0.00
ATOM	1402	2HB	ARG	A	93	12.994	14.507	-5.002	1.00	0.00
ATOM	1403	1HG	ARG	A	93	14.232	15.541	-6.535	1.00	0.00
ATOM	1404	2HG	ARG	A	93	12.781	15.502	-7.537	1.00	0.00

ATOM 1405	1HD	ARG	A	93	13.080	17.726	-7.647	1.00	0.00
ATOM 1406	2HD	ARG	A	93	12.322	17.723	-6.056	1.00	0.00
ATOM 1407	HE	ARG	A	93	15.169	17.380	-5.958	1.00	0.00
ATOM 1408	1HH1	ARG	A	93	12.590	19.724	-6.139	1.00	0.00
ATOM 1409	2HH1	ARG	A	93	13.534	21.000	-5.447	1.00	0.00
ATOM 1410	1HH2	ARG	A	93	16.411	19.057	-5.048	1.00	0.00
ATOM 1411	2HH2	ARG	A	93	15.704	20.622	-4.828	1.00	0.00
ATOM 1412	N	VAL	A	94	9.650	12.803	-5.472	1.00	0.00
ATOM 1413	CA	VAL	A	94	9.347	11.451	-5.015	1.00	0.00
ATOM 1414	C	VAL	A	94	9.227	10.490	-6.194	1.00	0.00
ATOM 1415	O	VAL	A	94	8.170	10.385	-6.817	1.00	0.00
ATOM 1416	CB	VAL	A	94	8.043	11.411	-4.196	1.00	0.00
ATOM 1417	CG1	VAL	A	94	7.823	10.026	-3.605	1.00	0.00
ATOM 1418	CG2	VAL	A	94	8.064	12.468	-3.101	1.00	0.00
ATOM 1419	H	VAL	A	94	8.944	13.331	-5.902	1.00	0.00
ATOM 1420	HA	VAL	A	94	10.157	11.126	-4.379	1.00	0.00
ATOM 1421	HB	VAL	A	94	7.218	11.628	-4.860	1.00	0.00
ATOM 1422	1HG1	VAL	A	94	8.392	9.300	-4.166	1.00	0.00
ATOM 1423	2HG1	VAL	A	94	6.773	9.776	-3.653	1.00	0.00
ATOM 1424	3HG1	VAL	A	94	8.147	10.019	-2.575	1.00	0.00
ATOM 1425	1HG2	VAL	A	94	7.097	12.943	-3.040	1.00	0.00
ATOM 1426	2HG2	VAL	A	94	8.816	13.209	-3.331	1.00	0.00
ATOM 1427	3HG2	VAL	A	94	8.297	12.001	-2.156	1.00	0.00
ATOM 1428	N	ASP	A	95	10.318	9.795	-6.495	1.00	0.00
ATOM 1429	CA	ASP	A	95	10.339	8.843	-7.602	1.00	0.00
ATOM 1430	C	ASP	A	95	9.314	7.735	-7.389	1.00	0.00
ATOM 1431	O	ASP	A	95	8.784	7.565	-6.290	1.00	0.00

ATOM	1432	CB	ASP	A	95	11.735	8.238	-7.753	1.00	0.00
ATOM	1433	CG	ASP	A	95	12.808	9.294	-7.928	1.00	0.00
ATOM	1434	OD1	ASP	A	95	12.480	10.401	-8.407	1.00	0.00
ATOM	1435	OD2	ASP	A	95	13.977	9.016	-7.585	1.00	0.00
ATOM	1436	H	ASP	A	95	11.130	9.925	-5.963	1.00	0.00
ATOM	1437	HA	ASP	A	95	10.089	9.380	-8.504	1.00	0.00
ATOM	1438	1HB	ASP	A	95	11.968	7.658	-6.874	1.00	0.00
ATOM	1439	2HB	ASP	A	95	11.748	7.592	-8.619	1.00	0.00
ATOM	1440	N	ARG	A	96	9.039	6.981	-8.448	1.00	0.00
ATOM	1441	CA	ARG	A	96	8.078	5.885	-8.383	1.00	0.00
ATOM	1442	C	ARG	A	96	8.672	4.690	-7.647	1.00	0.00
ATOM	1443	O	ARG	A	96	7.987	4.020	-6.874	1.00	0.00
ATOM	1444	CB	ARG	A	96	7.650	5.467	-9.793	1.00	0.00
ATOM	1445	CG	ARG	A	96	7.548	6.626	-10.772	1.00	0.00
ATOM	1446	CD	ARG	A	96	6.703	6.262	-11.982	1.00	0.00
ATOM	1447	NE	ARG	A	96	7.291	5.170	-12.753	1.00	0.00
ATOM	1448	CZ	ARG	A	96	8.391	5.293	-13.493	1.00	0.00
ATOM	1449	NH1	ARG	A	96	9.024	6.458	-13.566	1.00	0.00
ATOM	1450	NH2	ARG	A	96	8.860	4.249	-14.161	1.00	0.00
ATOM	1451	H	ARG	A	96	9.495	7.166	-9.296	1.00	0.00
ATOM	1452	HA	ARG	A	96	7.212	6.234	-7.841	1.00	0.00
ATOM	1453	1HB	ARG	A	96	8.369	4.760	-10.180	1.00	0.00
ATOM	1454	2HB	ARG	A	96	6.683	4.988	-9.735	1.00	0.00
ATOM	1455	1HG	ARG	A	96	7.099	7.468	-10.271	1.00	0.00
ATOM	1456	2HG	ARG	A	96	8.542	6.890	-11.104	1.00	0.00
ATOM	1457	1HD	ARG	A	96	5.722	5.963	-11.642	1.00	0.00
ATOM	1458	2HD	ARG	A	96	6.613	7.131	-12.617	1.00	0.00

ATOM 1459	HE	ARG A	96	6.845	4.298	-12.717	1.00	0.00
ATOM 1460	1HH1	ARG A	96	8.675	7.250	-13.064	1.00	0.00
ATOM 1461	2HH1	ARG A	96	9.850	6.543	-14.123	1.00	0.00
ATOM 1462	1HH2	ARG A	96	8.388	3.369	-14.110	1.00	0.00
ATOM 1463	2HH2	ARG A	96	9.687	4.341	-14.717	1.00	0.00
ATOM 1464	N	VAL A	97	9.950	4.429	-7.894	1.00	0.00
ATOM 1465	CA	VAL A	97	10.642	3.313	-7.257	1.00	0.00
ATOM 1466	C	VAL A	97	10.681	3.481	-5.740	1.00	0.00
ATOM 1467	O	VAL A	97	10.775	2.500	-5.003	1.00	0.00
ATOM 1468	CB	VAL A	97	12.083	3.170	-7.784	1.00	0.00
ATOM 1469	CG1	VAL A	97	12.735	1.914	-7.227	1.00	0.00
ATOM 1470	CG2	VAL A	97	12.098	3.156	-9.305	1.00	0.00
ATOM 1471	H	VAL A	97	10.442	5.000	-8.521	1.00	0.00
ATOM 1472	HA	VAL A	97	10.103	2.408	-7.495	1.00	0.00
ATOM 1473	HB	VAL A	97	12.654	4.024	-7.448	1.00	0.00
ATOM 1474	1HG1	VAL A	97	13.631	1.695	-7.787	1.00	0.00
ATOM 1475	2HG1	VAL A	97	12.048	1.085	-7.309	1.00	0.00
ATOM 1476	3HG1	VAL A	97	12.988	2.070	-6.189	1.00	0.00
ATOM 1477	1HG2	VAL A	97	12.235	2.144	-9.656	1.00	0.00
ATOM 1478	2HG2	VAL A	97	12.909	3.773	-9.663	1.00	0.00
ATOM 1479	3HG2	VAL A	97	11.161	3.542	-9.680	1.00	0.00
ATOM 1480	N	ALA A	98	10.610	4.727	-5.281	1.00	0.00
ATOM 1481	CA	ALA A	98	10.639	5.019	-3.852	1.00	0.00
ATOM 1482	C	ALA A	98	9.555	4.244	-3.110	1.00	0.00
ATOM 1483	O	ALA A	98	9.850	3.407	-2.257	1.00	0.00
ATOM 1484	CB	ALA A	98	10.476	6.512	-3.614	1.00	0.00
ATOM 1485	H	ALA A	98	10.537	5.469	-5.918	1.00	0.00

ATOM 1486	HA	ALA A	98	11.604	4.721	-3.470	1.00	0.00
ATOM 1487	1HB	ALA A	98	9.529	6.840	-4.017	1.00	0.00
ATOM 1488	2HB	ALA A	98	11.279	7.043	-4.103	1.00	0.00
ATOM 1489	3HB	ALA A	98	10.505	6.713	-2.553	1.00	0.00
ATOM 1490	N	ILE A	99	8.299	4.528	-3.440	1.00	0.00
ATOM 1491	CA	ILE A	99	7.174	3.854	-2.805	1.00	0.00
ATOM 1492	C	ILE A	99	7.130	2.381	-3.195	1.00	0.00
ATOM 1493	O	ILE A	99	6.621	1.545	-2.449	1.00	0.00
ATOM 1494	CB	ILE A	99	5.831	4.515	-3.180	1.00	0.00
ATOM 1495	CG1	ILE A	99	5.903	6.028	-2.967	1.00	0.00
ATOM 1496	CG2	ILE A	99	4.702	3.915	-2.356	1.00	0.00
ATOM 1497	CD1	ILE A	99	5.017	6.812	-3.912	1.00	0.00
ATOM 1498	H	ILE A	99	8.127	5.203	-4.129	1.00	0.00
ATOM 1499	HA	ILE A	99	7.302	3.929	-1.735	1.00	0.00
ATOM 1500	HB	ILE A	99	5.630	4.313	-4.220	1.00	0.00
ATOM 1501	1HG1	ILE A	99	5.593	6.256	-1.960	1.00	0.00
ATOM 1502	2HG1	ILE A	99	6.920	6.360	-3.111	1.00	0.00
ATOM 1503	1HG2	ILE A	99	5.111	3.437	-1.477	1.00	0.00
ATOM 1504	2HG2	ILE A	99	4.173	3.183	-2.949	1.00	0.00
ATOM 1505	3HG2	ILE A	99	4.020	4.696	-2.055	1.00	0.00
ATOM 1506	1HD1	ILE A	99	5.201	7.868	-3.784	1.00	0.00
ATOM 1507	2HD1	ILE A	99	3.982	6.597	-3.697	1.00	0.00
ATOM 1508	3HD1	ILE A	99	5.240	6.529	-4.930	1.00	0.00
ATOM 1509	N	TYR A	100	7.673	2.070	-4.368	1.00	0.00
ATOM 1510	CA	TYR A	100	7.701	0.698	-4.859	1.00	0.00
ATOM 1511	C	TYR A	100	8.658	-0.152	-4.031	1.00	0.00
ATOM 1512	O	TYR A	100	8.350	-1.290	-3.679	1.00	0.00

ATOM	1513	CB	TYR A 100	8.123	0.671	-6.328	1.00	0.00
ATOM	1514	CG	TYR A 100	8.039	-0.701	-6.959	1.00	0.00
ATOM	1515	CD1	TYR A 100	9.182	-1.460	-7.169	1.00	0.00
ATOM	1516	CD2	TYR A 100	6.816	-1.235	-7.346	1.00	0.00
ATOM	1517	CE1	TYR A 100	9.110	-2.715	-7.746	1.00	0.00
ATOM	1518	CE2	TYR A 100	6.736	-2.488	-7.922	1.00	0.00
ATOM	1519	CZ	TYR A 100	7.885	-3.224	-8.120	1.00	0.00
ATOM	1520	OH	TYR A 100	7.810	-4.472	-8.695	1.00	0.00
ATOM	1521	H	TYR A 100	8.065	2.780	-4.917	1.00	0.00
ATOM	1522	HA	TYR A 100	6.705	0.291	-4.770	1.00	0.00
ATOM	1523	1HB	TYR A 100	7.483	1.334	-6.890	1.00	0.00
ATOM	1524	2HB	TYR A 100	9.145	1.011	-6.409	1.00	0.00
ATOM	1525	HD1	TYR A 100	10.141	-1.059	-6.873	1.00	0.00
ATOM	1526	HD2	TYR A 100	5.917	-0.657	-7.190	1.00	0.00
ATOM	1527	HE1	TYR A 100	10.011	-3.289	-7.900	1.00	0.00
ATOM	1528	HE2	TYR A 100	5.776	-2.887	-8.216	1.00	0.00
ATOM	1529	HH	TYR A 100	8.449	-4.536	-9.408	1.00	0.00
ATOM	1530	N	GLU A 101	9.822	0.411	-3.725	1.00	0.00
ATOM	1531	CA	GLU A 101	10.829	-0.291	-2.940	1.00	0.00
ATOM	1532	C	GLU A 101	10.491	-0.252	-1.453	1.00	0.00
ATOM	1533	O	GLU A 101	10.592	-1.261	-0.757	1.00	0.00
ATOM	1534	CB	GLU A 101	12.208	0.328	-3.179	1.00	0.00
ATOM	1535	CG	GLU A 101	12.914	-0.213	-4.411	1.00	0.00
ATOM	1536	CD	GLU A 101	14.395	0.112	-4.424	1.00	0.00
ATOM	1537	OE1	GLU A 101	15.010	0.121	-3.337	1.00	0.00
ATOM	1538	OE2	GLU A 101	14.939	0.356	-5.521	1.00	0.00
ATOM	1539	H	GLU A 101	10.009	1.322	-4.037	1.00	0.00

ATOM	1540	HA	GLU A 101	10.846	-1.320	-3.267	1.00	0.00
ATOM	1541	1HB	GLU A 101	12.096	1.396	-3.293	1.00	0.00
ATOM	1542	2HB	GLU A 101	12.831	0.131	-2.319	1.00	0.00
ATOM	1543	1HG	GLU A 101	12.795	-1.285	-4.437	1.00	0.00
ATOM	1544	2HG	GLU A 101	12.457	0.221	-5.289	1.00	0.00
ATOM	1545	N	GLU A 102	10.091	0.922	-0.973	1.00	0.00
ATOM	1546	CA	GLU A 102	9.740	1.094	0.432	1.00	0.00
ATOM	1547	C	GLU A 102	8.579	0.187	0.822	1.00	0.00
ATOM	1548	O	GLU A 102	8.503	-0.288	1.956	1.00	0.00
ATOM	1549	CB	GLU A 102	9.378	2.553	0.712	1.00	0.00
ATOM	1550	CG	GLU A 102	10.580	3.430	1.022	1.00	0.00
ATOM	1551	CD	GLU A 102	11.414	2.893	2.170	1.00	0.00
ATOM	1552	OE1	GLU A 102	10.875	2.777	3.290	1.00	0.00
ATOM	1553	OE2	GLU A 102	12.604	2.587	1.947	1.00	0.00
ATOM	1554	H	GLU A 102	10.034	1.691	-1.578	1.00	0.00
ATOM	1555	HA	GLU A 102	10.604	0.827	1.024	1.00	0.00
ATOM	1556	1HB	GLU A 102	8.875	2.959	-0.152	1.00	0.00
ATOM	1557	2HB	GLU A 102	8.706	2.589	1.558	1.00	0.00
ATOM	1558	1HG	GLU A 102	11.203	3.489	0.143	1.00	0.00
ATOM	1559	2HG	GLU A 102	10.231	4.419	1.282	1.00	0.00
ATOM	1560	N	PHE A 103	7.674	-0.050	-0.122	1.00	0.00
ATOM	1561	CA	PHE A 103	6.515	-0.900	0.126	1.00	0.00
ATOM	1562	C	PHE A 103	6.911	-2.373	0.138	1.00	0.00
ATOM	1563	O	PHE A 103	6.485	-3.133	1.008	1.00	0.00
ATOM	1564	CB	PHE A 103	5.443	-0.657	-0.938	1.00	0.00
ATOM	1565	CG	PHE A 103	4.183	-1.443	-0.710	1.00	0.00
ATOM	1566	CD1	PHE A 103	3.719	-2.327	-1.671	1.00	0.00



ATOM	1567	CD2	PHE A 103	3.462	-1.296	0.464	1.00	0.00
ATOM	1568	CE1	PHE A 103	2.561	-3.051	-1.465	1.00	0.00
ATOM	1569	CE2	PHE A 103	2.302	-2.018	0.676	1.00	0.00
ATOM	1570	CZ	PHE A 103	1.851	-2.897	-0.290	1.00	0.00
ATOM	1571	H	PHE A 103	7.788	0.357	-1.006	1.00	0.00
ATOM	1572	HA	PHE A 103	6.115	-0.639	1.094	1.00	0.00
ATOM	1573	1HB	PHE A 103	5.183	0.391	-0.945	1.00	0.00
ATOM	1574	2HB	PHE A 103	5.837	-0.931	-1.905	1.00	0.00
ATOM	1575	HD1	PHE A 103	4.273	-2.450	-2.590	1.00	0.00
ATOM	1576	HD2	PHE A 103	3.814	-0.611	1.220	1.00	0.00
ATOM	1577	HE1	PHE A 103	2.209	-3.737	-2.222	1.00	0.00
ATOM	1578	HE2	PHE A 103	1.749	-1.896	1.595	1.00	0.00
ATOM	1579	HZ	PHE A 103	0.945	-3.461	-0.127	1.00	0.00
ATOM	1580	N	LEU A 104	7.724	-2.768	-0.834	1.00	0.00
ATOM	1581	CA	LEU A 104	8.178	-4.152	-0.941	1.00	0.00
ATOM	1582	C	LEU A 104	8.926	-4.584	0.316	1.00	0.00
ATOM	1583	O	LEU A 104	8.752	-5.702	0.801	1.00	0.00
ATOM	1584	CB	LEU A 104	9.080	-4.320	-2.164	1.00	0.00
ATOM	1585	CG	LEU A 104	8.377	-4.171	-3.514	1.00	0.00
ATOM	1586	CD1	LEU A 104	9.370	-3.764	-4.591	1.00	0.00
ATOM	1587	CD2	LEU A 104	7.677	-5.468	-3.894	1.00	0.00
ATOM	1588	H	LEU A 104	8.028	-2.115	-1.500	1.00	0.00
ATOM	1589	HA	LEU A 104	7.306	-4.777	-1.060	1.00	0.00
ATOM	1590	1HB	LEU A 104	9.867	-3.582	-2.107	1.00	0.00
ATOM	1591	2HB	LEU A 104	9.527	-5.302	-2.123	1.00	0.00
ATOM	1592	HG	LEU A 104	7.629	-3.395	-3.440	1.00	0.00
ATOM	1593	1HD1	LEU A 104	10.225	-3.290	-4.131	1.00	0.00

ATOM	1594	2HD1	LEU	A	104	8.898	-3.073	-5.273	1.00	0.00
ATOM	1595	3HD1	LEU	A	104	9.693	-4.641	-5.133	1.00	0.00
ATOM	1596	1HD2	LEU	A	104	6.700	-5.499	-3.434	1.00	0.00
ATOM	1597	2HD2	LEU	A	104	8.263	-6.307	-3.550	1.00	0.00
ATOM	1598	3HD2	LEU	A	104	7.571	-5.519	-4.967	1.00	0.00
ATOM	1599	N	ARG	A	105	9.764	-3.693	0.835	1.00	0.00
ATOM	1600	CA	ARG	A	105	10.546	-3.984	2.032	1.00	0.00
ATOM	1601	C	ARG	A	105	9.644	-4.321	3.217	1.00	0.00
ATOM	1602	O	ARG	A	105	9.742	-5.403	3.795	1.00	0.00
ATOM	1603	CB	ARG	A	105	11.444	-2.791	2.379	1.00	0.00
ATOM	1604	CG	ARG	A	105	12.927	-3.080	2.214	1.00	0.00
ATOM	1605	CD	ARG	A	105	13.736	-2.542	3.385	1.00	0.00
ATOM	1606	NE	ARG	A	105	13.878	-3.531	4.451	1.00	0.00
ATOM	1607	CZ	ARG	A	105	14.772	-3.439	5.433	1.00	0.00
ATOM	1608	NH1	ARG	A	105	15.605	-2.407	5.487	1.00	0.00
ATOM	1609	NH2	ARG	A	105	14.835	-4.382	6.362	1.00	0.00
ATOM	1610	H	ARG	A	105	9.863	-2.820	0.400	1.00	0.00
ATOM	1611	HA	ARG	A	105	11.170	-4.839	1.818	1.00	0.00
ATOM	1612	1HB	ARG	A	105	11.186	-1.964	1.736	1.00	0.00
ATOM	1613	2HB	ARG	A	105	11.266	-2.507	3.406	1.00	0.00
ATOM	1614	1HG	ARG	A	105	13.072	-4.148	2.151	1.00	0.00
ATOM	1615	2HG	ARG	A	105	13.275	-2.613	1.304	1.00	0.00
ATOM	1616	1HD	ARG	A	105	14.717	-2.265	3.031	1.00	0.00
ATOM	1617	2HD	ARG	A	105	13.236	-1.670	3.779	1.00	0.00
ATOM	1618	HE	ARG	A	105	13.276	-4.304	4.435	1.00	0.00
ATOM	1619	1HH1	ARG	A	105	15.563	-1.692	4.790	1.00	0.00
ATOM	1620	2HH1	ARG	A	105	16.274	-2.343	6.227	1.00	0.00

ATOM 1621	1HH2	ARG	A	105	14.210	-5.162	6.326	1.00	0.00
ATOM 1622	2HH2	ARG	A	105	15.507	-4.313	7.099	1.00	0.00
ATOM 1623	N	MET	A	106	8.772	-3.385	3.576	1.00	0.00
ATOM 1624	CA	MET	A	106	7.859	-3.580	4.698	1.00	0.00
ATOM 1625	C	MET	A	106	6.917	-4.757	4.455	1.00	0.00
ATOM 1626	O	MET	A	106	6.377	-5.332	5.400	1.00	0.00
ATOM 1627	CB	MET	A	106	7.048	-2.310	4.951	1.00	0.00
ATOM 1628	CG	MET	A	106	6.392	-2.281	6.320	1.00	0.00
ATOM 1629	SD	MET	A	106	7.167	-1.101	7.442	1.00	0.00
ATOM 1630	CE	MET	A	106	6.572	0.447	6.768	1.00	0.00
ATOM 1631	H	MET	A	106	8.746	-2.541	3.079	1.00	0.00
ATOM 1632	HA	MET	A	106	8.453	-3.791	5.573	1.00	0.00
ATOM 1633	1HB	MET	A	106	7.704	-1.456	4.867	1.00	0.00
ATOM 1634	2HB	MET	A	106	6.274	-2.236	4.202	1.00	0.00
ATOM 1635	1HG	MET	A	106	5.355	-2.012	6.200	1.00	0.00
ATOM 1636	2HG	MET	A	106	6.457	-3.267	6.757	1.00	0.00
ATOM 1637	1HE	MET	A	106	7.388	1.150	6.708	1.00	0.00
ATOM 1638	2HE	MET	A	106	5.800	0.845	7.410	1.00	0.00
ATOM 1639	3HE	MET	A	106	6.168	0.278	5.781	1.00	0.00
ATOM 1640	N	THR	A	107	6.720	-5.110	3.188	1.00	0.00
ATOM 1641	CA	THR	A	107	5.838	-6.218	2.838	1.00	0.00
ATOM 1642	C	THR	A	107	6.626	-7.510	2.641	1.00	0.00
ATOM 1643	O	THR	A	107	6.207	-8.396	1.896	1.00	0.00
ATOM 1644	CB	THR	A	107	5.051	-5.890	1.568	1.00	0.00
ATOM 1645	OG1	THR	A	107	5.929	-5.586	0.500	1.00	0.00
ATOM 1646	CG2	THR	A	107	4.107	-4.720	1.734	1.00	0.00
ATOM 1647	H	THR	A	107	7.174	-4.615	2.476	1.00	0.00

ATOM 1648	HA	THR A 107	5.143	-6.356	3.653	1.00	0.00
ATOM 1649	HB	THR A 107	4.463	-6.752	1.289	1.00	0.00
ATOM 1650	HG1	THR A 107	6.366	-4.749	0.674	1.00	0.00
ATOM 1651	1HG2	THR A 107	3.087	-5.065	1.648	1.00	0.00
ATOM 1652	2HG2	THR A 107	4.304	-3.986	0.967	1.00	0.00
ATOM 1653	3HG2	THR A 107	4.254	-4.273	2.706	1.00	0.00
ATOM 1654	N	HIS A 108	7.768	-7.614	3.315	1.00	0.00
ATOM 1655	CA	HIS A 108	8.613	-8.801	3.213	1.00	0.00
ATOM 1656	C	HIS A 108	8.964	-9.100	1.757	1.00	0.00
ATOM 1657	O	HIS A 108	8.637	-10.164	1.232	1.00	0.00
ATOM 1658	CB	HIS A 108	7.910	-10.006	3.842	1.00	0.00
ATOM 1659	CG	HIS A 108	8.837	-10.921	4.581	1.00	0.00
ATOM 1660	ND1	HIS A 108	9.327	-12.092	4.043	1.00	0.00
ATOM 1661	CD2	HIS A 108	9.365	-10.831	5.826	1.00	0.00
ATOM 1662	CE1	HIS A 108	10.115	-12.683	4.923	1.00	0.00
ATOM 1663	NE2	HIS A 108	10.156	-11.938	6.012	1.00	0.00
ATOM 1664	H	HIS A 108	8.051	-6.877	3.895	1.00	0.00
ATOM 1665	HA	HIS A 108	9.524	-8.605	3.757	1.00	0.00
ATOM 1666	1HB	HIS A 108	7.165	-9.655	4.541	1.00	0.00
ATOM 1667	2HB	HIS A 108	7.425	-10.579	3.066	1.00	0.00
ATOM 1668	HD1	HIS A 108	9.126	-12.438	3.148	1.00	0.00
ATOM 1669	HD2	HIS A 108	9.196	-10.037	6.538	1.00	0.00
ATOM 1670	HE1	HIS A 108	10.639	-13.617	4.776	1.00	0.00
ATOM 1671	HE2	HIS A 108	10.740	-12.096	6.783	1.00	0.00
ATOM 1672	N	ASN A 109	9.633	-8.150	1.111	1.00	0.00
ATOM 1673	CA	ASN A 109	10.032	-8.307	-0.285	1.00	0.00
ATOM 1674	C	ASN A 109	8.809	-8.386	-1.196	1.00	0.00

ATOM 1675	O	ASN A 109	8.856	-9.005	-2.259	1.00	0.00
ATOM 1676	CB	ASN A 109	10.897	-9.559	-0.454	1.00	0.00
ATOM 1677	CG	ASN A 109	12.309	-9.230	-0.898	1.00	0.00
ATOM 1678	OD1	ASN A 109	13.125	-8.755	-0.109	1.00	0.00
ATOM 1679	ND2	ASN A 109	12.603	-9.481	-2.168	1.00	0.00
ATOM 1680	H	ASN A 109	9.865	-7.324	1.583	1.00	0.00
ATOM 1681	HA	ASN A 109	10.613	-7.440	-0.560	1.00	0.00
ATOM 1682	1HB	ASN A 109	10.950	-10.083	0.489	1.00	0.00
ATOM 1683	2HB	ASN A 109	10.447	-10.205	-1.195	1.00	0.00
ATOM 1684	1HD2	ASN A 109	11.903	-9.859	-2.740	1.00	0.00
ATOM 1685	2HD2	ASN A 109	13.509	-9.278	-2.483	1.00	0.00
ATOM 1686	N	GLY A 110	7.718	-7.754	-0.775	1.00	0.00
ATOM 1687	CA	GLY A 110	6.503	-7.763	-1.567	1.00	0.00
ATOM 1688	C	GLY A 110	5.844	-9.128	-1.616	1.00	0.00
ATOM 1689	O	GLY A 110	5.277	-9.513	-2.638	1.00	0.00
ATOM 1690	H	GLY A 110	7.740	-7.275	0.080	1.00	0.00
ATOM 1691	1HA	GLY A 110	5.805	-7.056	-1.143	1.00	0.00
ATOM 1692	2HA	GLY A 110	6.741	-7.456	-2.574	1.00	0.00
ATOM 1693	N	THR A 111	5.918	-9.862	-0.510	1.00	0.00
ATOM 1694	CA	THR A 111	5.322	-11.192	-0.436	1.00	0.00
ATOM 1695	C	THR A 111	4.267	-11.273	0.666	1.00	0.00
ATOM 1696	O	THR A 111	3.468	-12.210	0.701	1.00	0.00
ATOM 1697	CB	THR A 111	6.404	-12.246	-0.196	1.00	0.00
ATOM 1698	OG1	THR A 111	7.024	-12.051	1.063	1.00	0.00
ATOM 1699	CG2	THR A 111	7.491	-12.239	-1.249	1.00	0.00
ATOM 1700	H	THR A 111	6.384	-9.501	0.273	1.00	0.00
ATOM 1701	HA	THR A 111	4.846	-11.393	-1.385	1.00	0.00

ATOM 1702	HB	THR A 111	5.946	-13.224	-0.201	1.00	0.00
ATOM 1703	HG1	THR A 111	7.268	-11.128	1.160	1.00	0.00
ATOM 1704	1HG2	THR A 111	8.349	-12.783	-0.884	1.00	0.00
ATOM 1705	2HG2	THR A 111	7.777	-11.219	-1.465	1.00	0.00
ATOM 1706	3HG2	THR A 111	7.123	-12.707	-2.150	1.00	0.00
ATOM 1707	N	GLN A 112	4.265	-10.294	1.568	1.00	0.00
ATOM 1708	CA	GLN A 112	3.303	-10.272	2.664	1.00	0.00
ATOM 1709	C	GLN A 112	3.136	-8.860	3.216	1.00	0.00
ATOM 1710	O	GLN A 112	4.066	-8.291	3.786	1.00	0.00
ATOM 1711	CB	GLN A 112	3.752	-11.217	3.781	1.00	0.00
ATOM 1712	CG	GLN A 112	2.659	-11.528	4.790	1.00	0.00
ATOM 1713	CD	GLN A 112	3.214	-11.951	6.136	1.00	0.00
ATOM 1714	OE1	GLN A 112	4.419	-11.877	6.375	1.00	0.00
ATOM 1715	NE2	GLN A 112	2.334	-12.397	7.026	1.00	0.00
ATOM 1716	H	GLN A 112	4.923	-9.573	1.497	1.00	0.00
ATOM 1717	HA	GLN A 112	2.354	-10.609	2.279	1.00	0.00
ATOM 1718	1HB	GLN A 112	4.080	-12.147	3.340	1.00	0.00
ATOM 1719	2HB	GLN A 112	4.580	-10.766	4.307	1.00	0.00
ATOM 1720	1HG	GLN A 112	2.053	-10.646	4.930	1.00	0.00
ATOM 1721	2HG	GLN A 112	2.046	-12.328	4.403	1.00	0.00
ATOM 1722	1HE2	GLN A 112	1.390	-12.429	6.767	1.00	0.00
ATOM 1723	2HE2	GLN A 112	2.667	-12.677	7.904	1.00	0.00
ATOM 1724	N	LEU A 113	1.942	-8.301	3.043	1.00	0.00
ATOM 1725	CA	LEU A 113	1.650	-6.956	3.525	1.00	0.00
ATOM 1726	C	LEU A 113	0.939	-7.006	4.874	1.00	0.00
ATOM 1727	O	LEU A 113	-0.288	-7.070	4.939	1.00	0.00
ATOM 1728	CB	LEU A 113	0.795	-6.200	2.500	1.00	0.00

ATOM 1729	CG	LEU A 113	0.353	-4.786	2.904	1.00	0.00
ATOM 1730	CD1	LEU A 113	-0.982	-4.829	3.631	1.00	0.00
ATOM 1731	CD2	LEU A 113	1.408	-4.109	3.768	1.00	0.00
ATOM 1732	H	LEU A 113	1.239	-8.806	2.582	1.00	0.00
ATOM 1733	HA	LEU A 113	2.590	-6.438	3.647	1.00	0.00
ATOM 1734	1HB	LEU A 113	1.360	-6.126	1.581	1.00	0.00
ATOM 1735	2HB	LEU A 113	-0.092	-6.786	2.307	1.00	0.00
ATOM 1736	HG	LEU A 113	0.223	-4.193	2.010	1.00	0.00
ATOM 1737	1HD1	LEU A 113	-1.589	-3.993	3.317	1.00	0.00
ATOM 1738	2HD1	LEU A 113	-0.814	-4.773	4.696	1.00	0.00
ATOM 1739	3HD1	LEU A 113	-1.491	-5.752	3.395	1.00	0.00
ATOM 1740	1HD2	LEU A 113	2.387	-4.476	3.497	1.00	0.00
ATOM 1741	2HD2	LEU A 113	1.218	-4.329	4.808	1.00	0.00
ATOM 1742	3HD2	LEU A 113	1.369	-3.040	3.613	1.00	0.00
ATOM 1743	N	LEU A 114	1.722	-6.980	5.949	1.00	0.00
ATOM 1744	CA	LEU A 114	1.175	-7.024	7.302	1.00	0.00
ATOM 1745	C	LEU A 114	0.365	-8.300	7.526	1.00	0.00
ATOM 1746	O	LEU A 114	0.864	-9.270	8.095	1.00	0.00
ATOM 1747	CB	LEU A 114	0.304	-5.793	7.566	1.00	0.00
ATOM 1748	CG	LEU A 114	1.070	-4.477	7.701	1.00	0.00
ATOM 1749	CD1	LEU A 114	0.107	-3.299	7.724	1.00	0.00
ATOM 1750	CD2	LEU A 114	1.933	-4.486	8.955	1.00	0.00
ATOM 1751	H	LEU A 114	2.693	-6.931	5.830	1.00	0.00
ATOM 1752	HA	LEU A 114	2.006	-7.018	7.992	1.00	0.00
ATOM 1753	1HB	LEU A 114	-0.399	-5.695	6.753	1.00	0.00
ATOM 1754	2HB	LEU A 114	-0.247	-5.958	8.479	1.00	0.00
ATOM 1755	HG	LEU A 114	1.722	-4.358	6.847	1.00	0.00

ATOM 1756	1HD1	LEU	A	114	0.594	-2.445	8.169	1.00	0.00
ATOM 1757	2HD1	LEU	A	114	-0.766	-3.560	8.305	1.00	0.00
ATOM 1758	3HD1	LEU	A	114	-0.190	-3.059	6.714	1.00	0.00
ATOM 1759	1HD2	LEU	A	114	2.885	-4.024	8.740	1.00	0.00
ATOM 1760	2HD2	LEU	A	114	2.092	-5.505	9.276	1.00	0.00
ATOM 1761	3HD2	LEU	A	114	1.435	-3.936	9.739	1.00	0.00
ATOM 1762	N	ASN	A	115	-0.886	-8.292	7.075	1.00	0.00
ATOM 1763	CA	ASN	A	115	-1.761	-9.449	7.226	1.00	0.00
ATOM 1764	C	ASN	A	115	-2.486	-9.757	5.920	1.00	0.00
ATOM 1765	O	ASN	A	115	-3.656	-10.138	5.922	1.00	0.00
ATOM 1766	CB	ASN	A	115	-2.779	-9.202	8.342	1.00	0.00
ATOM 1767	CG	ASN	A	115	-2.119	-8.891	9.670	1.00	0.00
ATOM 1768	OD1	ASN	A	115	-2.033	-7.732	10.077	1.00	0.00
ATOM 1769	ND2	ASN	A	115	-1.648	-9.928	10.354	1.00	0.00
ATOM 1770	H	ASN	A	115	-1.229	-7.490	6.628	1.00	0.00
ATOM 1771	HA	ASN	A	115	-1.147	-10.296	7.493	1.00	0.00
ATOM 1772	1HB	ASN	A	115	-3.407	-8.367	8.069	1.00	0.00
ATOM 1773	2HB	ASN	A	115	-3.392	-10.083	8.461	1.00	0.00
ATOM 1774	1HD2	ASN	A	115	-1.752	-10.823	9.968	1.00	0.00
ATOM 1775	2HD2	ASN	A	115	-1.216	-9.755	11.216	1.00	0.00
ATOM 1776	N	PHE	A	116	-1.780	-9.591	4.805	1.00	0.00
ATOM 1777	CA	PHE	A	116	-2.356	-9.851	3.490	1.00	0.00
ATOM 1778	C	PHE	A	116	-1.279	-10.284	2.501	1.00	0.00
ATOM 1779	O	PHE	A	116	-0.616	-9.449	1.885	1.00	0.00
ATOM 1780	CB	PHE	A	116	-3.071	-8.604	2.966	1.00	0.00
ATOM 1781	CG	PHE	A	116	-4.430	-8.391	3.572	1.00	0.00
ATOM 1782	CD1	PHE	A	116	-5.557	-8.949	2.991	1.00	0.00



ATOM 1783	CD2	PHE A 116	-4.579	-7.631	4.721	1.00	0.00
ATOM 1784	CE1	PHE A 116	-6.808	-8.753	3.545	1.00	0.00
ATOM 1785	CE2	PHE A 116	-5.827	-7.431	5.279	1.00	0.00
ATOM 1786	CZ	PHE A 116	-6.943	-7.994	4.691	1.00	0.00
ATOM 1787	H	PHE A 116	-0.851	-9.285	4.869	1.00	0.00
ATOM 1788	HA	PHE A 116	-3.074	-10.651	3.595	1.00	0.00
ATOM 1789	1HB	PHE A 116	-2.471	-7.734	3.186	1.00	0.00
ATOM 1790	2HB	PHE A 116	-3.193	-8.691	1.896	1.00	0.00
ATOM 1791	HD1	PHE A 116	-5.452	-9.544	2.096	1.00	0.00
ATOM 1792	HD2	PHE A 116	-3.707	-7.190	5.182	1.00	0.00
ATOM 1793	HE1	PHE A 116	-7.679	-9.193	3.082	1.00	0.00
ATOM 1794	HE2	PHE A 116	-5.930	-6.837	6.175	1.00	0.00
ATOM 1795	HZ	PHE A 116	-7.920	-7.839	5.125	1.00	0.00
ATOM 1796	N	THR A 117	-1.107	-11.594	2.354	1.00	0.00
ATOM 1797	CA	THR A 117	-0.109	-12.136	1.439	1.00	0.00
ATOM 1798	C	THR A 117	-0.414	-11.726	0.002	1.00	0.00
ATOM 1799	O	THR A 117	-1.525	-11.922	-0.488	1.00	0.00
ATOM 1800	CB	THR A 117	-0.055	-13.664	1.550	1.00	0.00
ATOM 1801	OG1	THR A 117	-1.019	-14.137	2.474	1.00	0.00
ATOM 1802	CG2	THR A 117	1.297	-14.182	1.992	1.00	0.00
ATOM 1803	H	THR A 117	-1.666	-12.210	2.873	1.00	0.00
ATOM 1804	HA	THR A 117	0.851	-11.730	1.720	1.00	0.00
ATOM 1805	HB	THR A 117	-0.273	-14.093	0.583	1.00	0.00
ATOM 1806	HG1	THR A 117	-0.970	-15.094	2.526	1.00	0.00
ATOM 1807	1HG2	THR A 117	1.940	-13.349	2.238	1.00	0.00
ATOM 1808	2HG2	THR A 117	1.741	-14.756	1.192	1.00	0.00
ATOM 1809	3HG2	THR A 117	1.175	-14.811	2.862	1.00	0.00

ATOM 1810	N	LEU A 118	0.582	-11.156	-0.669	1.00	0.00
ATOM 1811	CA	LEU A 118	0.420	-10.719	-2.050	1.00	0.00
ATOM 1812	C	LEU A 118	1.695	-10.959	-2.852	1.00	0.00
ATOM 1813	O	LEU A 118	2.778	-11.103	-2.288	1.00	0.00
ATOM 1814	CB	LEU A 118	0.038	-9.239	-2.094	1.00	0.00
ATOM 1815	CG	LEU A 118	1.053	-8.284	-1.463	1.00	0.00
ATOM 1816	CD1	LEU A 118	2.063	-7.816	-2.499	1.00	0.00
ATOM 1817	CD2	LEU A 118	0.342	-7.096	-0.830	1.00	0.00
ATOM 1818	H	LEU A 118	1.446	-11.027	-0.226	1.00	0.00
ATOM 1819	HA	LEU A 118	-0.379	-11.300	-2.487	1.00	0.00
ATOM 1820	1HB	LEU A 118	-0.098	-8.955	-3.129	1.00	0.00
ATOM 1821	2HB	LEU A 118	-0.902	-9.119	-1.579	1.00	0.00
ATOM 1822	HG	LEU A 118	1.591	-8.805	-0.686	1.00	0.00
ATOM 1823	1HD1	LEU A 118	2.303	-6.777	-2.324	1.00	0.00
ATOM 1824	2HD1	LEU A 118	1.641	-7.926	-3.488	1.00	0.00
ATOM 1825	3HD1	LEU A 118	2.960	-8.411	-2.422	1.00	0.00
ATOM 1826	1HD2	LEU A 118	-0.669	-7.041	-1.204	1.00	0.00
ATOM 1827	2HD2	LEU A 118	0.868	-6.187	-1.079	1.00	0.00
ATOM 1828	3HD2	LEU A 118	0.322	-7.219	0.242	1.00	0.00
ATOM 1829	N	ASP A 119	1.554	-11.006	-4.174	1.00	0.00
ATOM 1830	CA	ASP A 119	2.692	-11.234	-5.057	1.00	0.00
ATOM 1831	C	ASP A 119	3.621	-10.025	-5.081	1.00	0.00
ATOM 1832	O	ASP A 119	3.226	-8.919	-4.712	1.00	0.00
ATOM 1833	CB	ASP A 119	2.209	-11.548	-6.474	1.00	0.00
ATOM 1834	CG	ASP A 119	3.181	-12.430	-7.233	1.00	0.00
ATOM 1835	OD1	ASP A 119	3.122	-12.441	-8.482	1.00	0.00
ATOM 1836	OD2	ASP A 119	4.002	-13.108	-6.581	1.00	0.00

ATOM	1837	H	ASP	A	119	0.662	-10.886	-4.563	1.00	0.00
ATOM	1838	HA	ASP	A	119	3.239	-12.085	-4.677	1.00	0.00
ATOM	1839	1HB	ASP	A	119	1.258	-12.057	-6.419	1.00	0.00
ATOM	1840	2HB	ASP	A	119	2.088	-10.623	-7.019	1.00	0.00
ATOM	1841	N	ARG	A	120	4.857	-10.245	-5.516	1.00	0.00
ATOM	1842	CA	ARG	A	120	5.844	-9.175	-5.590	1.00	0.00
ATOM	1843	C	ARG	A	120	5.883	-8.566	-6.988	1.00	0.00
ATOM	1844	O	ARG	A	120	5.752	-7.353	-7.152	1.00	0.00
ATOM	1845	CB	ARG	A	120	7.229	-9.706	-5.214	1.00	0.00
ATOM	1846	CG	ARG	A	120	8.317	-8.645	-5.242	1.00	0.00
ATOM	1847	CD	ARG	A	120	9.676	-9.249	-5.553	1.00	0.00
ATOM	1848	NE	ARG	A	120	10.540	-8.312	-6.268	1.00	0.00
ATOM	1849	CZ	ARG	A	120	11.862	-8.445	-6.361	1.00	0.00
ATOM	1850	NH1	ARG	A	120	12.475	-9.471	-5.785	1.00	0.00
ATOM	1851	NH2	ARG	A	120	12.572	-7.548	-7.032	1.00	0.00
ATOM	1852	H	ARG	A	120	5.110	-11.149	-5.796	1.00	0.00
ATOM	1853	HA	ARG	A	120	5.558	-8.410	-4.885	1.00	0.00
ATOM	1854	1HB	ARG	A	120	7.185	-10.117	-4.215	1.00	0.00
ATOM	1855	2HB	ARG	A	120	7.501	-10.489	-5.904	1.00	0.00
ATOM	1856	1HG	ARG	A	120	8.076	-7.916	-6.003	1.00	0.00
ATOM	1857	2HG	ARG	A	120	8.360	-8.160	-4.278	1.00	0.00
ATOM	1858	1HD	ARG	A	120	10.154	-9.526	-4.624	1.00	0.00
ATOM	1859	2HD	ARG	A	120	9.535	-10.130	-6.161	1.00	0.00
ATOM	1860	HE	ARG	A	120	10.114	-7.544	-6.702	1.00	0.00
ATOM	1861	1HH1	ARG	A	120	11.945	-10.151	-5.278	1.00	0.00
ATOM	1862	2HH1	ARG	A	120	13.468	-9.565	-5.859	1.00	0.00
ATOM	1863	1HH2	ARG	A	120	12.115	-6.773	-7.467	1.00	0.00

ATOM 1864	2HH2	ARG	A	120	13.564	-7.647	-7.101	1.00	0.00
ATOM 1865	N	LYS	A	121	6.065	-9.416	-7.993	1.00	0.00
ATOM 1866	CA	LYS	A	121	6.123	-8.961	-9.378	1.00	0.00
ATOM 1867	C	LYS	A	121	4.819	-8.284	-9.784	1.00	0.00
ATOM 1868	O	LYS	A	121	4.812	-7.376	-10.615	1.00	0.00
ATOM 1869	CB	LYS	A	121	6.412	-10.139	-10.311	1.00	0.00
ATOM 1870	CG	LYS	A	121	5.431	-11.291	-10.159	1.00	0.00
ATOM 1871	CD	LYS	A	121	6.149	-12.612	-9.936	1.00	0.00
ATOM 1872	CE	LYS	A	121	6.568	-13.247	-11.252	1.00	0.00
ATOM 1873	NZ	LYS	A	121	6.419	-14.728	-11.227	1.00	0.00
ATOM 1874	H	LYS	A	121	6.165	-10.372	-7.799	1.00	0.00
ATOM 1875	HA	LYS	A	121	6.927	-8.246	-9.457	1.00	0.00
ATOM 1876	1HB	LYS	A	121	6.369	-9.791	-11.333	1.00	0.00
ATOM 1877	2HB	LYS	A	121	7.407	-10.510	-10.107	1.00	0.00
ATOM 1878	1HG	LYS	A	121	4.789	-11.095	-9.313	1.00	0.00
ATOM 1879	2HG	LYS	A	121	4.834	-11.363	-11.056	1.00	0.00
ATOM 1880	1HD	LYS	A	121	7.030	-12.436	-9.338	1.00	0.00
ATOM 1881	2HD	LYS	A	121	5.486	-13.287	-9.416	1.00	0.00
ATOM 1882	1HE	LYS	A	121	5.952	-12.846	-12.044	1.00	0.00
ATOM 1883	2HE	LYS	A	121	7.602	-13.000	-11.443	1.00	0.00
ATOM 1884	1HZ	LYS	A	121	6.448	-15.074	-10.246	1.00	0.00
ATOM 1885	2HZ	LYS	A	121	7.189	-15.174	-11.763	1.00	0.00
ATOM 1886	3HZ	LYS	A	121	5.510	-15.003	-11.654	1.00	0.00
ATOM 1887	N	SER	A	122	3.715	-8.732	-9.194	1.00	0.00
ATOM 1888	CA	SER	A	122	2.406	-8.168	-9.498	1.00	0.00
ATOM 1889	C	SER	A	122	2.362	-6.678	-9.169	1.00	0.00
ATOM 1890	O	SER	A	122	1.654	-5.910	-9.817	1.00	0.00

ATOM	1891	CB	SER A 122	1.315	-8.907	-8.721	1.00	0.00
ATOM	1892	OG	SER A 122	1.327	-8.542	-7.351	1.00	0.00
ATOM	1893	H	SER A 122	3.783	-9.458	-8.541	1.00	0.00
ATOM	1894	HA	SER A 122	2.229	-8.293	-10.556	1.00	0.00
ATOM	1895	1HB	SER A 122	0.349	-8.661	-9.137	1.00	0.00
ATOM	1896	2HB	SER A 122	1.479	-9.972	-8.799	1.00	0.00
ATOM	1897	HG	SER A 122	2.232	-8.536	-7.029	1.00	0.00
ATOM	1898	N	VAL A 123	3.126	-6.278	-8.155	1.00	0.00
ATOM	1899	CA	VAL A 123	3.174	-4.882	-7.740	1.00	0.00
ATOM	1900	C	VAL A 123	3.631	-3.983	-8.884	1.00	0.00
ATOM	1901	O	VAL A 123	4.445	-4.385	-9.715	1.00	0.00
ATOM	1902	CB	VAL A 123	4.116	-4.684	-6.538	1.00	0.00
ATOM	1903	CG1	VAL A 123	4.017	-3.261	-6.007	1.00	0.00
ATOM	1904	CG2	VAL A 123	3.803	-5.694	-5.443	1.00	0.00
ATOM	1905	H	VAL A 123	3.669	-6.938	-7.676	1.00	0.00
ATOM	1906	HA	VAL A 123	2.177	-4.588	-7.442	1.00	0.00
ATOM	1907	HB	VAL A 123	5.130	-4.849	-6.871	1.00	0.00
ATOM	1908	1HG1	VAL A 123	4.607	-3.171	-5.107	1.00	0.00
ATOM	1909	2HG1	VAL A 123	2.986	-3.030	-5.787	1.00	0.00
ATOM	1910	3HG1	VAL A 123	4.389	-2.573	-6.752	1.00	0.00
ATOM	1911	1HG2	VAL A 123	2.810	-6.090	-5.592	1.00	0.00
ATOM	1912	2HG2	VAL A 123	3.856	-5.209	-4.479	1.00	0.00
ATOM	1913	3HG2	VAL A 123	4.521	-6.500	-5.480	1.00	0.00
ATOM	1914	N	PHE A 124	3.104	-2.763	-8.919	1.00	0.00
ATOM	1915	CA	PHE A 124	3.459	-1.807	-9.962	1.00	0.00
ATOM	1916	C	PHE A 124	2.916	-0.419	-9.639	1.00	0.00
ATOM	1917	O	PHE A 124	1.720	-0.249	-9.399	1.00	0.00

ATOM	1918	CB	PHE A 124	2.920	-2.276	-11.315	1.00	0.00
ATOM	1919	CG	PHE A 124	3.518	-1.546	-12.484	1.00	0.00
ATOM	1920	CD1	PHE A 124	3.241	-0.205	-12.695	1.00	0.00
ATOM	1921	CD2	PHE A 124	4.355	-2.202	-13.373	1.00	0.00
ATOM	1922	CE1	PHE A 124	3.789	0.468	-13.771	1.00	0.00
ATOM	1923	CE2	PHE A 124	4.906	-1.534	-14.450	1.00	0.00
ATOM	1924	CZ	PHE A 124	4.623	-0.197	-14.649	1.00	0.00
ATOM	1925	H	PHE A 124	2.460	-2.500	-8.229	1.00	0.00
ATOM	1926	HA	PHE A 124	4.536	-1.757	-10.013	1.00	0.00
ATOM	1927	1HB	PHE A 124	3.135	-3.327	-11.436	1.00	0.00
ATOM	1928	2HB	PHE A 124	1.851	-2.127	-11.339	1.00	0.00
ATOM	1929	HD1	PHE A 124	2.590	0.316	-12.010	1.00	0.00
ATOM	1930	HD2	PHE A 124	4.577	-3.247	-13.217	1.00	0.00
ATOM	1931	HE1	PHE A 124	3.566	1.514	-13.924	1.00	0.00
ATOM	1932	HE2	PHE A 124	5.557	-2.057	-15.134	1.00	0.00
ATOM	1933	HZ	PHE A 124	5.053	0.328	-15.489	1.00	0.00
ATOM	1934	N	VAL A 125	3.802	0.571	-9.638	1.00	0.00
ATOM	1935	CA	VAL A 125	3.414	1.946	-9.349	1.00	0.00
ATOM	1936	C	VAL A 125	3.863	2.885	-10.465	1.00	0.00
ATOM	1937	O	VAL A 125	5.038	2.911	-10.832	1.00	0.00
ATOM	1938	CB	VAL A 125	4.006	2.428	-8.009	1.00	0.00
ATOM	1939	CG1	VAL A 125	5.527	2.388	-8.048	1.00	0.00
ATOM	1940	CG2	VAL A 125	3.509	3.829	-7.673	1.00	0.00
ATOM	1941	H	VAL A 125	4.741	0.372	-9.839	1.00	0.00
ATOM	1942	HA	VAL A 125	2.337	1.980	-9.276	1.00	0.00
ATOM	1943	HB	VAL A 125	3.673	1.757	-7.231	1.00	0.00
ATOM	1944	1HG1	VAL A 125	5.891	3.166	-8.701	1.00	0.00

ATOM	1945	2HG1	VAL	A	125	5.851	1.426	-8.417	1.00	0.00
ATOM	1946	3HG1	VAL	A	125	5.916	2.542	-7.052	1.00	0.00
ATOM	1947	1HG2	VAL	A	125	4.335	4.430	-7.322	1.00	0.00
ATOM	1948	2HG2	VAL	A	125	2.755	3.767	-6.904	1.00	0.00
ATOM	1949	3HG2	VAL	A	125	3.086	4.283	-8.558	1.00	0.00
ATOM	1950	N	ASP	A	126	2.920	3.652	-11.003	1.00	0.00
ATOM	1951	CA	ASP	A	126	3.220	4.589	-12.079	1.00	0.00
ATOM	1952	C	ASP	A	126	2.637	5.968	-11.785	1.00	0.00
ATOM	1953	O	ASP	A	126	1.963	6.165	-10.774	1.00	0.00
ATOM	1954	CB	ASP	A	126	2.672	4.062	-13.408	1.00	0.00
ATOM	1955	CG	ASP	A	126	3.679	4.178	-14.535	1.00	0.00
ATOM	1956	OD1	ASP	A	126	3.314	4.709	-15.604	1.00	0.00
ATOM	1957	OD2	ASP	A	126	4.832	3.738	-14.348	1.00	0.00
ATOM	1958	H	ASP	A	126	2.000	3.585	-10.669	1.00	0.00
ATOM	1959	HA	ASP	A	126	4.294	4.673	-12.153	1.00	0.00
ATOM	1960	1HB	ASP	A	126	2.406	3.022	-13.293	1.00	0.00
ATOM	1961	2HB	ASP	A	126	1.791	4.627	-13.676	1.00	0.00
ATOM	1962	N	SER	A	127	2.903	6.916	-12.675	1.00	0.00
ATOM	1963	CA	SER	A	127	2.407	8.279	-12.516	1.00	0.00
ATOM	1964	C	SER	A	127	0.892	8.330	-12.685	1.00	0.00
ATOM	1965	O	SER	A	127	0.370	8.112	-13.778	1.00	0.00
ATOM	1966	CB	SER	A	127	3.076	9.210	-13.528	1.00	0.00
ATOM	1967	OG	SER	A	127	2.620	8.947	-14.844	1.00	0.00
ATOM	1968	H	SER	A	127	3.447	6.696	-13.460	1.00	0.00
ATOM	1969	HA	SER	A	127	2.657	8.606	-11.518	1.00	0.00
ATOM	1970	1HB	SER	A	127	2.844	10.235	-13.279	1.00	0.00
ATOM	1971	2HB	SER	A	127	4.146	9.065	-13.495	1.00	0.00

ATOM 1972	HG	SER A 127	3.209	9.366	-15.476	1.00	0.00
ATOM 1973	N	GLY A 128	0.192	8.617	-11.593	1.00	0.00
ATOM 1974	CA	GLY A 128	-1.255	8.692	-11.635	1.00	0.00
ATOM 1975	C	GLY A 128	-1.764	9.882	-12.432	1.00	0.00
ATOM 1976	O	GLY A 128	-2.556	9.712	-13.358	1.00	0.00
ATOM 1977	H	GLY A 128	0.665	8.780	-10.750	1.00	0.00
ATOM 1978	1HA	GLY A 128	-1.638	7.787	-12.081	1.00	0.00
ATOM 1979	2HA	GLY A 128	-1.629	8.766	-10.624	1.00	0.00
ATOM 1980	N	PRO A 129	-1.332	11.111	-12.092	1.00	0.00
ATOM 1981	CA	PRO A 129	-1.771	12.320	-12.796	1.00	0.00
ATOM 1982	C	PRO A 129	-1.369	12.319	-14.268	1.00	0.00
ATOM 1983	O	PRO A 129	-2.221	12.396	-15.151	1.00	0.00
ATOM 1984	CB	PRO A 129	-1.071	13.461	-12.048	1.00	0.00
ATOM 1985	CG	PRO A 129	0.057	12.817	-11.315	1.00	0.00
ATOM 1986	CD	PRO A 129	-0.393	11.420	-10.999	1.00	0.00
ATOM 1987	HA	PRO A 129	-2.842	12.448	-12.723	1.00	0.00
ATOM 1988	1HB	PRO A 129	-0.712	14.192	-12.757	1.00	0.00
ATOM 1989	2HB	PRO A 129	-1.766	13.927	-11.366	1.00	0.00
ATOM 1990	1HG	PRO A 129	0.936	12.793	-11.941	1.00	0.00
ATOM 1991	2HG	PRO A 129	0.259	13.360	-10.404	1.00	0.00
ATOM 1992	1HD	PRO A 129	0.448	10.745	-11.006	1.00	0.00
ATOM 1993	2HD	PRO A 129	-0.893	11.391	-10.042	1.00	0.00
ATOM 1994	N	SER A 130	-0.067	12.232	-14.523	1.00	0.00
ATOM 1995	CA	SER A 130	0.449	12.222	-15.891	1.00	0.00
ATOM 1996	C	SER A 130	0.281	13.589	-16.547	1.00	0.00
ATOM 1997	O	SER A 130	1.264	14.255	-16.874	1.00	0.00
ATOM 1998	CB	SER A 130	-0.261	11.152	-16.725	1.00	0.00



ATOM	1999	OG	SER A 130	0.438	10.899	-17.931	1.00	0.00
ATOM	2000	H	SER A 130	0.564	12.174	-13.776	1.00	0.00
ATOM	2001	HA	SER A 130	1.502	11.987	-15.844	1.00	0.00
ATOM	2002	1HB	SER A 130	-0.317	10.236	-16.158	1.00	0.00
ATOM	2003	2HB	SER A 130	-1.259	11.490	-16.965	1.00	0.00
ATOM	2004	HG	SER A 130	-0.182	10.895	-18.666	1.00	0.00
ATOM	2005	N	SER A 131	-0.969	14.003	-16.736	1.00	0.00
ATOM	2006	CA	SER A 131	-1.268	15.292	-17.353	1.00	0.00
ATOM	2007	C	SER A 131	-0.914	15.282	-18.835	1.00	0.00
ATOM	2008	O	SER A 131	-1.791	15.380	-19.695	1.00	0.00
ATOM	2009	CB	SER A 131	-0.511	16.417	-16.641	1.00	0.00
ATOM	2010	OG	SER A 131	-1.154	17.666	-16.833	1.00	0.00
ATOM	2011	H	SER A 131	-1.709	13.427	-16.453	1.00	0.00
ATOM	2012	HA	SER A 131	-2.330	15.467	-17.251	1.00	0.00
ATOM	2013	1HB	SER A 131	-0.469	16.207	-15.584	1.00	0.00
ATOM	2014	2HB	SER A 131	0.492	16.479	-17.038	1.00	0.00
ATOM	2015	HG	SER A 131	-1.888	17.746	-16.216	1.00	0.00
ATOM	2016	N	GLY A 132	0.377	15.165	-19.131	1.00	0.00
ATOM	2017	CA	GLY A 132	0.823	15.145	-20.511	1.00	0.00
ATOM	2018	C	GLY A 132	0.788	16.519	-21.152	1.00	0.00
ATOM	2019	H	GLY A 132	1.031	15.091	-18.405	1.00	0.00
ATOM	2020	1HA	GLY A 132	1.834	14.770	-20.546	1.00	0.00
ATOM	2021	2HA	GLY A 132	0.184	14.481	-21.076	1.00	0.00
TER	2022		GLY A 132					

ENDMDL

Three-Dimensional Structure Coordinate 13

ATOM 1	N	GLY A	1	-8.018	22.065	-13.698	1.00	0.00
ATOM 2	CA	GLY A	1	-9.472	21.746	-13.657	1.00	0.00
ATOM 3	C	GLY A	1	-10.275	22.790	-12.906	1.00	0.00
ATOM 4	O	GLY A	1	-10.322	23.953	-13.307	1.00	0.00
ATOM 5	1H	GLY A	1	-7.513	21.526	-12.967	1.00	0.00
ATOM 6	2H	GLY A	1	-7.871	23.080	-13.529	1.00	0.00
ATOM 7	3H	GLY A	1	-7.625	21.820	-14.629	1.00	0.00
ATOM 8	1HA	GLY A	1	-9.845	21.681	-14.668	1.00	0.00
ATOM 9	2HA	GLY A	1	-9.606	20.789	-13.173	1.00	0.00
ATOM 10	N	SER A	2	-10.908	22.375	-11.813	1.00	0.00
ATOM 11	CA	SER A	2	-11.713	23.284	-11.004	1.00	0.00
ATOM 12	C	SER A	2	-10.889	23.868	-9.860	1.00	0.00
ATOM 13	O	SER A	2	-9.911	23.266	-9.415	1.00	0.00
ATOM 14	CB	SER A	2	-12.938	22.556	-10.447	1.00	0.00
ATOM 15	OG	SER A	2	-14.060	22.722	-11.296	1.00	0.00
ATOM 16	H	SER A	2	-10.833	21.436	-11.544	1.00	0.00
ATOM 17	HA	SER A	2	-12.043	24.090	-11.642	1.00	0.00
ATOM 18	1HB	SER A	2	-12.720	21.502	-10.363	1.00	0.00
ATOM 19	2HB	SER A	2	-13.177	22.953	-9.471	1.00	0.00
ATOM 20	HG	SER A	2	-14.779	23.123	-10.802	1.00	0.00
ATOM 21	N	SER A	3	-11.290	25.044	-9.389	1.00	0.00
ATOM 22	CA	SER A	3	-10.591	25.709	-8.296	1.00	0.00
ATOM 23	C	SER A	3	-10.710	24.908	-7.005	1.00	0.00
ATOM 24	O	SER A	3	-9.716	24.413	-6.475	1.00	0.00
ATOM 25	CB	SER A	3	-11.147	27.119	-8.089	1.00	0.00
ATOM 26	OG	SER A	3	-10.415	28.073	-8.841	1.00	0.00
ATOM 27	H	SER A	3	-12.077	25.474	-9.785	1.00	0.00

ATOM 28	HA	SER A	3	-9.548	25.780	-8.567	1.00	0.00
ATOM 29	1HB	SER A	3	-12.179	27.147	-8.404	1.00	0.00
ATOM 30	2HB	SER A	3	-11.084	27.379	-7.043	1.00	0.00
ATOM 31	HG	SER A	3	-10.007	28.705	-8.245	1.00	0.00
ATOM 32	N	GLY A	4	-11.935	24.784	-6.502	1.00	0.00
ATOM 33	CA	GLY A	4	-12.162	24.043	-5.277	1.00	0.00
ATOM 34	C	GLY A	4	-11.456	24.660	-4.085	1.00	0.00
ATOM 35	O	GLY A	4	-11.707	25.814	-3.736	1.00	0.00
ATOM 36	H	GLY A	4	-12.689	25.201	-6.968	1.00	0.00
ATOM 37	1HA	GLY A	4	-13.223	24.014	-5.077	1.00	0.00
ATOM 38	2HA	GLY A	4	-11.804	23.032	-5.408	1.00	0.00
ATOM 39	N	SER A	5	-10.571	23.892	-3.460	1.00	0.00
ATOM 40	CA	SER A	5	-9.826	24.370	-2.301	1.00	0.00
ATOM 41	C	SER A	5	-8.480	24.951	-2.721	1.00	0.00
ATOM 42	O	SER A	5	-8.222	26.140	-2.540	1.00	0.00
ATOM 43	CB	SER A	5	-9.614	23.233	-1.300	1.00	0.00
ATOM 44	OG	SER A	5	-9.588	21.976	-1.953	1.00	0.00
ATOM 45	H	SER A	5	-10.414	22.980	-3.786	1.00	0.00
ATOM 46	HA	SER A	5	-10.409	25.147	-1.830	1.00	0.00
ATOM 47	1HB	SER A	5	-8.674	23.377	-0.789	1.00	0.00
ATOM 48	2HB	SER A	5	-10.419	23.235	-0.581	1.00	0.00
ATOM 49	HG	SER A	5	-9.230	21.313	-1.359	1.00	0.00
ATOM 50	N	SER A	6	-7.625	24.103	-3.283	1.00	0.00
ATOM 51	CA	SER A	6	-6.305	24.532	-3.730	1.00	0.00
ATOM 52	C	SER A	6	-6.314	24.855	-5.221	1.00	0.00
ATOM 53	O	SER A	6	-7.202	24.423	-5.955	1.00	0.00
ATOM 54	CB	SER A	6	-5.267	23.448	-3.437	1.00	0.00

ATOM 55	OG	SER A	6	-5.553	22.260	-4.155	1.00	0.00
ATOM 56	H	SER A	6	-7.888	23.166	-3.401	1.00	0.00
ATOM 57	HA	SER A	6	-6.044	25.425	-3.183	1.00	0.00
ATOM 58	1HB	SER A	6	-4.288	23.801	-3.728	1.00	0.00
ATOM 59	2HB	SER A	6	-5.269	23.226	-2.381	1.00	0.00
ATOM 60	HG	SER A	6	-5.354	22.391	-5.085	1.00	0.00
ATOM 61	N	GLY A	7	-5.318	25.618	-5.662	1.00	0.00
ATOM 62	CA	GLY A	7	-5.230	25.987	-7.062	1.00	0.00
ATOM 63	C	GLY A	7	-4.884	24.809	-7.952	1.00	0.00
ATOM 64	O	GLY A	7	-5.759	24.028	-8.328	1.00	0.00
ATOM 65	H	GLY A	7	-4.638	25.934	-5.030	1.00	0.00
ATOM 66	1HA	GLY A	7	-6.180	26.394	-7.376	1.00	0.00
ATOM 67	2HA	GLY A	7	-4.470	26.745	-7.177	1.00	0.00
ATOM 68	N	SER A	8	-3.605	24.681	-8.290	1.00	0.00
ATOM 69	CA	SER A	8	-3.146	23.590	-9.142	1.00	0.00
ATOM 70	C	SER A	8	-1.757	23.119	-8.721	1.00	0.00
ATOM 71	O	SER A	8	-1.046	23.818	-8.000	1.00	0.00
ATOM 72	CB	SER A	8	-3.129	24.032	-10.608	1.00	0.00
ATOM 73	OG	SER A	8	-4.175	23.415	-11.339	1.00	0.00
ATOM 74	H	SER A	8	-2.956	25.335	-7.960	1.00	0.00
ATOM 75	HA	SER A	8	-3.839	22.769	-9.032	1.00	0.00
ATOM 76	1HB	SER A	8	-3.255	25.103	-10.660	1.00	0.00
ATOM 77	2HB	SER A	8	-2.184	23.759	-11.055	1.00	0.00
ATOM 78	HG	SER A	8	-4.987	23.451	-10.829	1.00	0.00
ATOM 79	N	SER A	9	-1.377	21.931	-9.178	1.00	0.00
ATOM 80	CA	SER A	9	-0.073	21.366	-8.850	1.00	0.00
ATOM 81	C	SER A	9	0.079	21.185	-7.342	1.00	0.00

ATOM 82	O	SER A	9	1.098	21.558	-6.759	1.00	0.00
ATOM 83	CB	SER A	9	1.044	22.265	-9.384	1.00	0.00
ATOM 84	OG	SER A	9	1.148	22.165	-10.794	1.00	0.00
ATOM 85	H	SER A	9	-1.988	21.421	-9.749	1.00	0.00
ATOM 86	HA	SER A	9	-0.002	20.399	-9.324	1.00	0.00
ATOM 87	1HB	SER A	9	0.833	23.291	-9.124	1.00	0.00
ATOM 88	2HB	SER A	9	1.985	21.967	-8.944	1.00	0.00
ATOM 89	HG	SER A	9	1.079	23.040	-11.183	1.00	0.00
ATOM 90	N	SER A	10	-0.941	20.608	-6.715	1.00	0.00
ATOM 91	CA	SER A	10	-0.921	20.375	-5.276	1.00	0.00
ATOM 92	C	SER A	10	-0.633	18.909	-4.966	1.00	0.00
ATOM 93	O	SER A	10	-1.483	18.044	-5.169	1.00	0.00
ATOM 94	CB	SER A	10	-2.256	20.786	-4.652	1.00	0.00
ATOM 95	OG	SER A	10	-2.122	21.005	-3.258	1.00	0.00
ATOM 96	H	SER A	10	-1.726	20.331	-7.233	1.00	0.00
ATOM 97	HA	SER A	10	-0.134	20.981	-4.853	1.00	0.00
ATOM 98	1HB	SER A	10	-2.601	21.700	-5.115	1.00	0.00
ATOM 99	2HB	SER A	10	-2.983	20.005	-4.814	1.00	0.00
ATOM 100	HG	SER A	10	-2.350	20.201	-2.785	1.00	0.00
ATOM 101	N	SER A	11	0.573	18.640	-4.476	1.00	0.00
ATOM 102	CA	SER A	11	0.975	17.279	-4.138	1.00	0.00
ATOM 103	C	SER A	11	0.882	16.365	-5.356	1.00	0.00
ATOM 104	O	SER A	11	0.303	16.732	-6.378	1.00	0.00
ATOM 105	CB	SER A	11	0.102	16.732	-3.006	1.00	0.00
ATOM 106	OG	SER A	11	-1.130	16.238	-3.502	1.00	0.00
ATOM 107	H	SER A	11	1.207	19.374	-4.337	1.00	0.00
ATOM 108	HA	SER A	11	2.001	17.310	-3.805	1.00	0.00

ATOM 109	1HB	SER A	11	0.623	15.928	-2.509	1.00	0.00
ATOM 110	2HB	SER A	11	-0.100	17.522	-2.297	1.00	0.00
ATOM 111	N	GLN A	12	1.456	15.172	-5.239	1.00	0.00
ATOM 112	CA	GLN A	12	1.438	14.205	-6.331	1.00	0.00
ATOM 113	C	GLN A	12	0.579	12.997	-5.974	1.00	0.00
ATOM 114	O	GLN A	12	0.257	12.774	-4.807	1.00	0.00
ATOM 115	CB	GLN A	12	2.861	13.754	-6.665	1.00	0.00
ATOM 116	CG	GLN A	12	3.706	13.447	-5.440	1.00	0.00
ATOM 117	CD	GLN A	12	4.673	14.565	-5.104	1.00	0.00
ATOM 118	OE1	GLN A	12	4.289	15.583	-4.527	1.00	0.00
ATOM 119	NE2	GLN A	12	5.938	14.383	-5.466	1.00	0.00
ATOM 120	H	GLN A	12	1.904	14.936	-4.399	1.00	0.00
ATOM 121	HA	GLN A	12	1.012	14.691	-7.196	1.00	0.00
ATOM 122	1HB	GLN A	12	2.810	12.862	-7.272	1.00	0.00
ATOM 123	2HB	GLN A	12	3.352	14.535	-7.228	1.00	0.00
ATOM 124	1HG	GLN A	12	3.051	13.294	-4.595	1.00	0.00
ATOM 125	2HG	GLN A	12	4.272	12.546	-5.624	1.00	0.00
ATOM 126	1HE2	GLN A	12	6.172	13.548	-5.924	1.00	0.00
ATOM 127	2HE2	GLN A	12	6.585	15.089	-5.262	1.00	0.00
ATOM 128	N	HIS A	13	0.211	12.220	-6.987	1.00	0.00
ATOM 129	CA	HIS A	13	-0.613	11.035	-6.782	1.00	0.00
ATOM 130	C	HIS A	13	-0.097	9.864	-7.613	1.00	0.00
ATOM 131	O	HIS A	13	-0.430	9.732	-8.791	1.00	0.00
ATOM 132	CB	HIS A	13	-2.068	11.331	-7.147	1.00	0.00
ATOM 133	CG	HIS A	13	-2.739	12.281	-6.204	1.00	0.00
ATOM 134	ND1	HIS A	13	-3.766	13.120	-6.584	1.00	0.00
ATOM 135	CD2	HIS A	13	-2.526	12.522	-4.889	1.00	0.00

ATOM 136	CE1	HIS A	13	-4.155	13.836	-5.543	1.00	0.00
ATOM 137	NE2	HIS A	13	-3.419	13.492	-4.503	1.00	0.00
ATOM 138	H	HIS A	13	0.498	12.451	-7.896	1.00	0.00
ATOM 139	HA	HIS A	13	-0.559	10.770	-5.737	1.00	0.00
ATOM 140	1HB	HIS A	13	-2.103	11.765	-8.135	1.00	0.00
ATOM 141	2HB	HIS A	13	-2.628	10.408	-7.145	1.00	0.00
ATOM 142	HD1	HIS A	13	-4.152	13.182	-7.482	1.00	0.00
ATOM 143	HD2	HIS A	13	-1.791	12.041	-4.259	1.00	0.00
ATOM 144	HE1	HIS A	13	-4.941	14.576	-5.544	1.00	0.00
ATOM 145	HE2	HIS A	13	-3.552	13.811	-3.586	1.00	0.00
ATOM 146	N	PHE A	14	0.716	9.015	-6.992	1.00	0.00
ATOM 147	CA	PHE A	14	1.274	7.853	-7.675	1.00	0.00
ATOM 148	C	PHE A	14	0.304	6.677	-7.624	1.00	0.00
ATOM 149	O	PHE A	14	0.032	6.130	-6.555	1.00	0.00
ATOM 150	CB	PHE A	14	2.611	7.458	-7.046	1.00	0.00
ATOM 151	CG	PHE A	14	3.770	8.277	-7.538	1.00	0.00
ATOM 152	CD1	PHE A	14	4.397	7.966	-8.734	1.00	0.00
ATOM 153	CD2	PHE A	14	4.234	9.357	-6.804	1.00	0.00
ATOM 154	CE1	PHE A	14	5.463	8.717	-9.189	1.00	0.00
ATOM 155	CE2	PHE A	14	5.300	10.112	-7.255	1.00	0.00
ATOM 156	CZ	PHE A	14	5.915	9.792	-8.449	1.00	0.00
ATOM 157	H	PHE A	14	0.943	9.171	-6.051	1.00	0.00
ATOM 158	HA	PHE A	14	1.437	8.124	-8.708	1.00	0.00
ATOM 159	1HB	PHE A	14	2.548	7.582	-5.975	1.00	0.00
ATOM 160	2HB	PHE A	14	2.815	6.422	-7.272	1.00	0.00
ATOM 161	HD1	PHE A	14	4.044	7.126	-9.314	1.00	0.00
ATOM 162	HD2	PHE A	14	3.753	9.608	-5.870	1.00	0.00

ATOM 163	HE1	PHE	A	14	5.943	8.465	-10.124	1.00	0.00
ATOM 164	HE2	PHE	A	14	5.652	10.952	-6.673	1.00	0.00
ATOM 165	HZ	PHE	A	14	6.749	10.381	-8.803	1.00	0.00
ATOM 166	N	ASN	A	15	-0.218	6.296	-8.786	1.00	0.00
ATOM 167	CA	ASN	A	15	-1.162	5.186	-8.876	1.00	0.00
ATOM 168	C	ASN	A	15	-0.602	3.928	-8.221	1.00	0.00
ATOM 169	O	ASN	A	15	0.436	3.410	-8.632	1.00	0.00
ATOM 170	CB	ASN	A	15	-1.508	4.903	-10.340	1.00	0.00
ATOM 171	CG	ASN	A	15	-2.977	4.586	-10.535	1.00	0.00
ATOM 172	OD1	ASN	A	15	-3.479	3.581	-10.035	1.00	0.00
ATOM 173	ND2	ASN	A	15	-3.675	5.447	-11.268	1.00	0.00
ATOM 174	H	ASN	A	15	0.036	6.774	-9.602	1.00	0.00
ATOM 175	HA	ASN	A	15	-2.063	5.477	-8.356	1.00	0.00
ATOM 176	1HB	ASN	A	15	-1.263	5.770	-10.935	1.00	0.00
ATOM 177	2HB	ASN	A	15	-0.927	4.060	-10.684	1.00	0.00
ATOM 178	1HD2	ASN	A	15	-3.208	6.227	-11.635	1.00	0.00
ATOM 179	2HD2	ASN	A	15	-4.628	5.268	-11.410	1.00	0.00
ATOM 180	N	LEU	A	16	-1.300	3.439	-7.200	1.00	0.00
ATOM 181	CA	LEU	A	16	-0.876	2.239	-6.487	1.00	0.00
ATOM 182	C	LEU	A	16	-1.630	1.015	-6.994	1.00	0.00
ATOM 183	O	LEU	A	16	-2.851	1.049	-7.152	1.00	0.00
ATOM 184	CB	LEU	A	16	-1.105	2.408	-4.984	1.00	0.00
ATOM 185	CG	LEU	A	16	-0.455	1.338	-4.103	1.00	0.00
ATOM 186	CD1	LEU	A	16	1.058	1.342	-4.279	1.00	0.00
ATOM 187	CD2	LEU	A	16	-0.827	1.554	-2.644	1.00	0.00
ATOM 188	H	LEU	A	16	-2.121	3.895	-6.919	1.00	0.00
ATOM 189	HA	LEU	A	16	0.179	2.099	-6.670	1.00	0.00



ATOM 190	1HB	LEU	A	16	-0.716	3.372	-4.688	1.00	0.00
ATOM 191	2HB	LEU	A	16	-2.168	2.396	-4.799	1.00	0.00
ATOM 192	HG	LEU	A	16	-0.822	0.366	-4.402	1.00	0.00
ATOM 193	1HD1	LEU	A	16	1.529	1.624	-3.348	1.00	0.00
ATOM 194	2HD1	LEU	A	16	1.330	2.050	-5.048	1.00	0.00
ATOM 195	3HD1	LEU	A	16	1.389	0.355	-4.566	1.00	0.00
ATOM 196	1HD2	LEU	A	16	-0.478	2.524	-2.324	1.00	0.00
ATOM 197	2HD2	LEU	A	16	-0.367	0.788	-2.038	1.00	0.00
ATOM 198	3HD2	LEU	A	16	-1.900	1.504	-2.534	1.00	0.00
ATOM 199	N	ASN	A	17	-0.899	-0.065	-7.249	1.00	0.00
ATOM 200	CA	ASN	A	17	-1.505	-1.297	-7.738	1.00	0.00
ATOM 201	C	ASN	A	17	-0.739	-2.521	-7.246	1.00	0.00
ATOM 202	O	ASN	A	17	0.492	-2.539	-7.248	1.00	0.00
ATOM 203	CB	ASN	A	17	-1.552	-1.294	-9.267	1.00	0.00
ATOM 204	CG	ASN	A	17	-2.155	-0.018	-9.824	1.00	0.00
ATOM 205	OD1	ASN	A	17	-1.447	0.951	-10.092	1.00	0.00
ATOM 206	ND2	ASN	A	17	-3.472	-0.013	-9.999	1.00	0.00
ATOM 207	H	ASN	A	17	0.070	-0.033	-7.104	1.00	0.00
ATOM 208	HA	ASN	A	17	-2.513	-1.343	-7.358	1.00	0.00
ATOM 209	1HB	ASN	A	17	-0.549	-1.393	-9.654	1.00	0.00
ATOM 210	2HB	ASN	A	17	-2.149	-2.129	-9.605	1.00	0.00
ATOM 211	1HD2	ASN	A	17	-3.973	-0.822	-9.763	1.00	0.00
ATOM 212	2HD2	ASN	A	17	-3.887	0.798	-10.358	1.00	0.00
ATOM 213	N	PHE	A	18	-1.479	-3.544	-6.829	1.00	0.00
ATOM 214	CA	PHE	A	18	-0.875	-4.778	-6.336	1.00	0.00
ATOM 215	C	PHE	A	18	-1.948	-5.803	-5.986	1.00	0.00
ATOM 216	O	PHE	A	18	-2.836	-5.536	-5.175	1.00	0.00

ATOM 217	CB	PHE A	18	0.000	-4.494	-5.113	1.00	0.00
ATOM 218	CG	PHE A	18	-0.766	-3.973	-3.931	1.00	0.00
ATOM 219	CD1	PHE A	18	-1.334	-2.710	-3.960	1.00	0.00
ATOM 220	CD2	PHE A	18	-0.916	-4.747	-2.791	1.00	0.00
ATOM 221	CE1	PHE A	18	-2.038	-2.227	-2.874	1.00	0.00
ATOM 222	CE2	PHE A	18	-1.620	-4.268	-1.701	1.00	0.00
ATOM 223	CZ	PHE A	18	-2.182	-3.007	-1.744	1.00	0.00
ATOM 224	H	PHE A	18	-2.455	-3.469	-6.856	1.00	0.00
ATOM 225	HA	PHE A	18	-0.256	-5.180	-7.124	1.00	0.00
ATOM 226	1HB	PHE A	18	0.493	-5.407	-4.813	1.00	0.00
ATOM 227	2HB	PHE A	18	0.746	-3.758	-5.377	1.00	0.00
ATOM 228	HD1	PHE A	18	-1.223	-2.100	-4.844	1.00	0.00
ATOM 229	HD2	PHE A	18	-0.477	-5.733	-2.756	1.00	0.00
ATOM 230	HE1	PHE A	18	-2.475	-1.240	-2.909	1.00	0.00
ATOM 231	HE2	PHE A	18	-1.732	-4.880	-0.818	1.00	0.00
ATOM 232	HZ	PHE A	18	-2.732	-2.632	-0.893	1.00	0.00
ATOM 233	N	THR A	19	-1.863	-6.976	-6.605	1.00	0.00
ATOM 234	CA	THR A	19	-2.829	-8.041	-6.362	1.00	0.00
ATOM 235	C	THR A	19	-2.584	-8.706	-5.010	1.00	0.00
ATOM 236	O	THR A	19	-1.454	-9.065	-4.680	1.00	0.00
ATOM 237	CB	THR A	19	-2.757	-9.085	-7.478	1.00	0.00
ATOM 238	OG1	THR A	19	-2.860	-8.469	-8.749	1.00	0.00
ATOM 239	CG2	THR A	19	-3.844	-10.134	-7.387	1.00	0.00
ATOM 240	H	THR A	19	-1.135	-7.128	-7.242	1.00	0.00
ATOM 241	HA	THR A	19	-3.814	-7.600	-6.359	1.00	0.00
ATOM 242	HB	THR A	19	-1.804	-9.591	-7.421	1.00	0.00
ATOM 243	HG1	THR A	19	-3.583	-7.838	-8.742	1.00	0.00

ATOM 244	1HG2	THR	A	19	-3.427	-11.104	-7.610	1.00	0.00
ATOM 245	2HG2	THR	A	19	-4.625	-9.905	-8.097	1.00	0.00
ATOM 246	3HG2	THR	A	19	-4.256	-10.139	-6.389	1.00	0.00
ATOM 247	N	ILE	A	20	-3.652	-8.869	-4.235	1.00	0.00
ATOM 248	CA	ILE	A	20	-3.556	-9.494	-2.922	1.00	0.00
ATOM 249	C	ILE	A	20	-4.003	-10.951	-2.973	1.00	0.00
ATOM 250	O	ILE	A	20	-5.197	-11.246	-2.919	1.00	0.00
ATOM 251	CB	ILE	A	20	-4.406	-8.742	-1.877	1.00	0.00
ATOM 252	CG1	ILE	A	20	-4.032	-7.259	-1.853	1.00	0.00
ATOM 253	CG2	ILE	A	20	-4.230	-9.363	-0.496	1.00	0.00
ATOM 254	CD1	ILE	A	20	-5.032	-6.394	-1.117	1.00	0.00
ATOM 255	H	ILE	A	20	-4.526	-8.563	-4.556	1.00	0.00
ATOM 256	HA	ILE	A	20	-2.522	-9.455	-2.609	1.00	0.00
ATOM 257	HB	ILE	A	20	-5.445	-8.839	-2.156	1.00	0.00
ATOM 258	1HG1	ILE	A	20	-3.074	-7.143	-1.368	1.00	0.00
ATOM 259	2HG1	ILE	A	20	-3.961	-6.896	-2.868	1.00	0.00
ATOM 260	1HG2	ILE	A	20	-5.194	-9.652	-0.105	1.00	0.00
ATOM 261	2HG2	ILE	A	20	-3.773	-8.644	0.168	1.00	0.00
ATOM 262	3HG2	ILE	A	20	-3.596	-10.235	-0.570	1.00	0.00
ATOM 263	1HD1	ILE	A	20	-5.852	-6.150	-1.777	1.00	0.00
ATOM 264	2HD1	ILE	A	20	-4.549	-5.485	-0.791	1.00	0.00
ATOM 265	3HD1	ILE	A	20	-5.408	-6.931	-0.259	1.00	0.00
ATOM 266	N	THR	A	21	-3.037	-11.859	-3.075	1.00	0.00
ATOM 267	CA	THR	A	21	-3.328	-13.287	-3.132	1.00	0.00
ATOM 268	C	THR	A	21	-4.194	-13.720	-1.951	1.00	0.00
ATOM 269	O	THR	A	21	-4.930	-14.704	-2.039	1.00	0.00
ATOM 270	CB	THR	A	21	-2.027	-14.092	-3.148	1.00	0.00

ATOM 271	OG1	THR	A	21	-1.179	-13.696	-2.084	1.00	0.00
ATOM 272	CG2	THR	A	21	-1.248	-13.945	-4.436	1.00	0.00
ATOM 273	H	THR	A	21	-2.105	-11.560	-3.113	1.00	0.00
ATOM 274	HA	THR	A	21	-3.867	-13.478	-4.047	1.00	0.00
ATOM 275	HB	THR	A	21	-2.263	-15.139	-3.020	1.00	0.00
ATOM 276	HG1	THR	A	21	-1.617	-13.860	-1.247	1.00	0.00
ATOM 277	1HG2	THR	A	21	-1.708	-13.186	-5.051	1.00	0.00
ATOM 278	2HG2	THR	A	21	-1.247	-14.886	-4.966	1.00	0.00
ATOM 279	3HG2	THR	A	21	-0.232	-13.658	-4.211	1.00	0.00
ATOM 280	N	ASN	A	22	-4.103	-12.982	-0.849	1.00	0.00
ATOM 281	CA	ASN	A	22	-4.881	-13.292	0.345	1.00	0.00
ATOM 282	C	ASN	A	22	-6.249	-12.616	0.292	1.00	0.00
ATOM 283	O	ASN	A	22	-6.645	-11.918	1.226	1.00	0.00
ATOM 284	CB	ASN	A	22	-4.126	-12.851	1.600	1.00	0.00
ATOM 285	CG	ASN	A	22	-4.445	-13.718	2.803	1.00	0.00
ATOM 286	OD1	ASN	A	22	-4.421	-14.946	2.721	1.00	0.00
ATOM 287	ND2	ASN	A	22	-4.748	-13.081	3.928	1.00	0.00
ATOM 288	H	ASN	A	22	-3.500	-12.209	-0.839	1.00	0.00
ATOM 289	HA	ASN	A	22	-5.023	-14.362	0.379	1.00	0.00
ATOM 290	1HB	ASN	A	22	-3.064	-12.907	1.412	1.00	0.00
ATOM 291	2HB	ASN	A	22	-4.392	-11.831	1.834	1.00	0.00
ATOM 292	1HD2	ASN	A	22	-4.749	-12.102	3.920	1.00	0.00
ATOM 293	2HD2	ASN	A	22	-4.960	-13.617	4.721	1.00	0.00
ATOM 294	N	LEU	A	23	-6.965	-12.829	-0.806	1.00	0.00
ATOM 295	CA	LEU	A	23	-8.287	-12.243	-0.986	1.00	0.00
ATOM 296	C	LEU	A	23	-8.937	-12.760	-2.269	1.00	0.00
ATOM 297	O	LEU	A	23	-8.798	-12.153	-3.331	1.00	0.00

ATOM 298	CB	LEU A	23	-8.189	-10.716	-1.030	1.00	0.00
ATOM 299	CG	LEU A	23	-9.419	-9.972	-0.506	1.00	0.00
ATOM 300	CD1	LEU A	23	-10.629	-10.257	-1.381	1.00	0.00
ATOM 301	CD2	LEU A	23	-9.700	-10.361	0.938	1.00	0.00
ATOM 302	H	LEU A	23	-6.594	-13.394	-1.515	1.00	0.00
ATOM 303	HA	LEU A	23	-8.897	-12.533	-0.144	1.00	0.00
ATOM 304	1HB	LEU A	23	-7.334	-10.415	-0.442	1.00	0.00
ATOM 305	2HB	LEU A	23	-8.025	-10.416	-2.054	1.00	0.00
ATOM 306	HG	LEU A	23	-9.229	-8.910	-0.536	1.00	0.00
ATOM 307	1HD1	LEU A	23	-10.300	-10.529	-2.373	1.00	0.00
ATOM 308	2HD1	LEU A	23	-11.248	-9.375	-1.438	1.00	0.00
ATOM 309	3HD1	LEU A	23	-11.199	-11.070	-0.956	1.00	0.00
ATOM 310	1HD2	LEU A	23	-10.363	-9.634	1.383	1.00	0.00
ATOM 311	2HD2	LEU A	23	-8.772	-10.388	1.490	1.00	0.00
ATOM 312	3HD2	LEU A	23	-10.164	-11.336	0.964	1.00	0.00
ATOM 313	N	PRO A	24	-9.656	-13.893	-2.187	1.00	0.00
ATOM 314	CA	PRO A	24	-10.325	-14.488	-3.350	1.00	0.00
ATOM 315	C	PRO A	24	-11.421	-13.590	-3.910	1.00	0.00
ATOM 316	O	PRO A	24	-12.314	-13.155	-3.184	1.00	0.00
ATOM 317	CB	PRO A	24	-10.924	-15.787	-2.801	1.00	0.00
ATOM 318	CG	PRO A	24	-11.024	-15.575	-1.330	1.00	0.00
ATOM 319	CD	PRO A	24	-9.873	-14.683	-0.961	1.00	0.00
ATOM 320	HA	PRO A	24	-9.618	-14.719	-4.133	1.00	0.00
ATOM 321	1HB	PRO A	24	-11.896	-15.952	-3.244	1.00	0.00
ATOM 322	2HB	PRO A	24	-10.271	-16.615	-3.035	1.00	0.00
ATOM 323	1HG	PRO A	24	-11.962	-15.094	-1.091	1.00	0.00
ATOM 324	2HG	PRO A	24	-10.944	-16.521	-0.815	1.00	0.00

ATOM 325	1HD	PRO A	24	-10.141	-14.045	-0.132	1.00	0.00
ATOM 326	2HD	PRO A	24	-9.000	-15.271	-0.723	1.00	0.00
ATOM 327	N	TYR A	25	-11.346	-13.316	-5.210	1.00	0.00
ATOM 328	CA	TYR A	25	-12.331	-12.469	-5.872	1.00	0.00
ATOM 329	C	TYR A	25	-13.716	-13.106	-5.825	1.00	0.00
ATOM 330	O	TYR A	25	-14.042	-13.966	-6.643	1.00	0.00
ATOM 331	CB	TYR A	25	-11.921	-12.217	-7.324	1.00	0.00
ATOM 332	CG	TYR A	25	-12.632	-11.043	-7.960	1.00	0.00
ATOM 333	CD1	TYR A	25	-13.479	-11.226	-9.047	1.00	0.00
ATOM 334	CD2	TYR A	25	-12.455	-9.754	-7.476	1.00	0.00
ATOM 335	CE1	TYR A	25	-14.130	-10.157	-9.631	1.00	0.00
ATOM 336	CE2	TYR A	25	-13.102	-8.679	-8.056	1.00	0.00
ATOM 337	CZ	TYR A	25	-13.938	-8.886	-9.133	1.00	0.00
ATOM 338	OH	TYR A	25	-14.584	-7.818	-9.713	1.00	0.00
ATOM 339	H	TYR A	25	-10.609	-13.693	-5.735	1.00	0.00
ATOM 340	HA	TYR A	25	-12.363	-11.525	-5.347	1.00	0.00
ATOM 341	1HB	TYR A	25	-10.860	-12.021	-7.363	1.00	0.00
ATOM 342	2HB	TYR A	25	-12.141	-13.097	-7.910	1.00	0.00
ATOM 343	HD1	TYR A	25	-13.627	-12.223	-9.435	1.00	0.00
ATOM 344	HD2	TYR A	25	-11.798	-9.595	-6.633	1.00	0.00
ATOM 345	HE1	TYR A	25	-14.784	-10.319	-10.475	1.00	0.00
ATOM 346	HE2	TYR A	25	-12.951	-7.683	-7.665	1.00	0.00
ATOM 347	HH	TYR A	25	-13.986	-7.370	-10.315	1.00	0.00
ATOM 348	N	SER A	26	-14.527	-12.678	-4.864	1.00	0.00
ATOM 349	CA	SER A	26	-15.878	-13.206	-4.712	1.00	0.00
ATOM 350	C	SER A	26	-16.913	-12.204	-5.213	1.00	0.00
ATOM 351	O	SER A	26	-16.592	-11.047	-5.483	1.00	0.00

ATOM 352	CB	SER A	26	-16.152	-13.550	-3.247	1.00	0.00
ATOM 353	OG	SER A	26	-17.265	-14.419	-3.126	1.00	0.00
ATOM 354	H	SER A	26	-14.210	-11.990	-4.242	1.00	0.00
ATOM 355	HA	SER A	26	-15.949	-14.107	-5.304	1.00	0.00
ATOM 356	1HB	SER A	26	-15.285	-14.037	-2.826	1.00	0.00
ATOM 357	2HB	SER A	26	-16.358	-12.643	-2.699	1.00	0.00
ATOM 358	HG	SER A	26	-17.130	-15.191	-3.680	1.00	0.00
ATOM 359	N	GLN A	27	-18.157	-12.657	-5.337	1.00	0.00
ATOM 360	CA	GLN A	27	-19.239	-11.800	-5.807	1.00	0.00
ATOM 361	C	GLN A	27	-19.402	-10.580	-4.904	1.00	0.00
ATOM 362	O	GLN A	27	-19.847	-9.522	-5.347	1.00	0.00
ATOM 363	CB	GLN A	27	-20.551	-12.584	-5.866	1.00	0.00
ATOM 364	CG	GLN A	27	-21.035	-13.068	-4.509	1.00	0.00
ATOM 365	CD	GLN A	27	-20.497	-14.441	-4.154	1.00	0.00
ATOM 366	OE1	GLN A	27	-20.462	-15.343	-4.992	1.00	0.00
ATOM 367	NE2	GLN A	27	-20.074	-14.606	-2.906	1.00	0.00
ATOM 368	H	GLN A	27	-18.351	-13.589	-5.107	1.00	0.00
ATOM 369	HA	GLN A	27	-18.987	-11.463	-6.801	1.00	0.00
ATOM 370	1HB	GLN A	27	-21.316	-11.952	-6.292	1.00	0.00
ATOM 371	2HB	GLN A	27	-20.413	-13.446	-6.503	1.00	0.00
ATOM 372	1HG	GLN A	27	-20.713	-12.367	-3.755	1.00	0.00
ATOM 373	2HG	GLN A	27	-22.114	-13.112	-4.521	1.00	0.00
ATOM 374	1HE2	GLN A	27	-20.133	-13.844	-2.293	1.00	0.00
ATOM 375	2HE2	GLN A	27	-19.722	-15.484	-2.649	1.00	0.00
ATOM 376	N	ASP A	28	-19.039	-10.736	-3.634	1.00	0.00
ATOM 377	CA	ASP A	28	-19.145	-9.648	-2.670	1.00	0.00
ATOM 378	C	ASP A	28	-18.151	-8.537	-2.991	1.00	0.00

ATOM 379	O	ASP A	28	-18.498	-7.356	-2.979	1.00	0.00
ATOM 380	CB	ASP A	28	-18.903	-10.170	-1.252	1.00	0.00
ATOM 381	CG	ASP A	28	-20.174	-10.669	-0.596	1.00	0.00
ATOM 382	OD1	ASP A	28	-21.255	-10.120	-0.899	1.00	0.00
ATOM 383	OD2	ASP A	28	-20.091	-11.611	0.222	1.00	0.00
ATOM 384	H	ASP A	28	-18.691	-11.604	-3.339	1.00	0.00
ATOM 385	HA	ASP A	28	-20.146	-9.248	-2.730	1.00	0.00
ATOM 386	1HB	ASP A	28	-18.196	-10.986	-1.291	1.00	0.00
ATOM 387	2HB	ASP A	28	-18.495	-9.374	-0.648	1.00	0.00
ATOM 388	N	ILE A	29	-16.912	-8.923	-3.281	1.00	0.00
ATOM 389	CA	ILE A	29	-15.868	-7.960	-3.607	1.00	0.00
ATOM 390	C	ILE A	29	-16.142	-7.281	-4.945	1.00	0.00
ATOM 391	O	ILE A	29	-15.731	-6.144	-5.171	1.00	0.00
ATOM 392	CB	ILE A	29	-14.481	-8.630	-3.657	1.00	0.00
ATOM 393	CG1	ILE A	29	-14.246	-9.465	-2.397	1.00	0.00
ATOM 394	CG2	ILE A	29	-13.390	-7.580	-3.815	1.00	0.00
ATOM 395	CD1	ILE A	29	-14.359	-8.670	-1.115	1.00	0.00
ATOM 396	H	ILE A	29	-16.696	-9.879	-3.275	1.00	0.00
ATOM 397	HA	ILE A	29	-15.853	-7.209	-2.830	1.00	0.00
ATOM 398	HB	ILE A	29	-14.450	-9.277	-4.521	1.00	0.00
ATOM 399	1HG1	ILE A	29	-14.975	-10.260	-2.359	1.00	0.00
ATOM 400	2HG1	ILE A	29	-13.255	-9.893	-2.437	1.00	0.00
ATOM 401	1HG2	ILE A	29	-13.142	-7.473	-4.860	1.00	0.00
ATOM 402	2HG2	ILE A	29	-12.513	-7.888	-3.265	1.00	0.00
ATOM 403	3HG2	ILE A	29	-13.743	-6.635	-3.430	1.00	0.00
ATOM 404	1HD1	ILE A	29	-13.821	-9.178	-0.328	1.00	0.00
ATOM 405	2HD1	ILE A	29	-15.399	-8.577	-0.839	1.00	0.00



ATOM 406	3HD1	ILE	A	29	-13.936	-7.687	-1.262	1.00	0.00
ATOM 407	N	ALA	A	30	-16.840	-7.987	-5.830	1.00	0.00
ATOM 408	CA	ALA	A	30	-17.169	-7.451	-7.146	1.00	0.00
ATOM 409	C	ALA	A	30	-18.250	-6.375	-7.058	1.00	0.00
ATOM 410	O	ALA	A	30	-18.532	-5.689	-8.040	1.00	0.00
ATOM 411	CB	ALA	A	30	-17.614	-8.571	-8.073	1.00	0.00
ATOM 412	H	ALA	A	30	-17.141	-8.889	-5.593	1.00	0.00
ATOM 413	HA	ALA	A	30	-16.272	-7.012	-7.558	1.00	0.00
ATOM 414	1HB	ALA	A	30	-17.356	-8.319	-9.091	1.00	0.00
ATOM 415	2HB	ALA	A	30	-18.683	-8.701	-7.994	1.00	0.00
ATOM 416	3HB	ALA	A	30	-17.119	-9.489	-7.793	1.00	0.00
ATOM 417	N	GLN	A	31	-18.856	-6.230	-5.882	1.00	0.00
ATOM 418	CA	GLN	A	31	-19.903	-5.236	-5.679	1.00	0.00
ATOM 419	C	GLN	A	31	-19.561	-4.312	-4.509	1.00	0.00
ATOM 420	O	GLN	A	31	-19.584	-4.734	-3.354	1.00	0.00
ATOM 421	CB	GLN	A	31	-21.244	-5.927	-5.419	1.00	0.00
ATOM 422	CG	GLN	A	31	-22.057	-6.171	-6.680	1.00	0.00
ATOM 423	CD	GLN	A	31	-22.963	-5.004	-7.023	1.00	0.00
ATOM 424	OE1	GLN	A	31	-22.715	-3.870	-6.614	1.00	0.00
ATOM 425	NE2	GLN	A	31	-24.021	-5.279	-7.777	1.00	0.00
ATOM 426	H	GLN	A	31	-18.593	-6.803	-5.132	1.00	0.00
ATOM 427	HA	GLN	A	31	-19.982	-4.650	-6.581	1.00	0.00
ATOM 428	1HB	GLN	A	31	-21.057	-6.881	-4.947	1.00	0.00
ATOM 429	2HB	GLN	A	31	-21.829	-5.313	-4.751	1.00	0.00
ATOM 430	1HG	GLN	A	31	-21.379	-6.334	-7.504	1.00	0.00
ATOM 431	2HG	GLN	A	31	-22.666	-7.051	-6.536	1.00	0.00
ATOM 432	1HE2	GLN	A	31	-24.155	-6.205	-8.066	1.00	0.00

ATOM 433	2HE2	GLN	A	31	-24.624	-4.543	-8.014	1.00	0.00
ATOM 434	N	PRO	A	32	-19.234	-3.035	-4.792	1.00	0.00
ATOM 435	CA	PRO	A	32	-18.884	-2.059	-3.754	1.00	0.00
ATOM 436	C	PRO	A	32	-20.074	-1.705	-2.864	1.00	0.00
ATOM 437	O	PRO	A	32	-20.506	-0.554	-2.810	1.00	0.00
ATOM 438	CB	PRO	A	32	-18.423	-0.823	-4.543	1.00	0.00
ATOM 439	CG	PRO	A	32	-18.234	-1.290	-5.946	1.00	0.00
ATOM 440	CD	PRO	A	32	-19.172	-2.444	-6.135	1.00	0.00
ATOM 441	HA	PRO	A	32	-18.073	-2.416	-3.136	1.00	0.00
ATOM 442	1HB	PRO	A	32	-19.179	-0.054	-4.484	1.00	0.00
ATOM 443	2HB	PRO	A	32	-17.499	-0.454	-4.124	1.00	0.00
ATOM 444	1HG	PRO	A	32	-18.482	-0.495	-6.630	1.00	0.00
ATOM 445	2HG	PRO	A	32	-17.212	-1.609	-6.093	1.00	0.00
ATOM 446	1HD	PRO	A	32	-20.144	-2.095	-6.450	1.00	0.00
ATOM 447	2HD	PRO	A	32	-18.769	-3.147	-6.849	1.00	0.00
ATOM 448	N	SER	A	33	-20.599	-2.706	-2.168	1.00	0.00
ATOM 449	CA	SER	A	33	-21.737	-2.506	-1.280	1.00	0.00
ATOM 450	C	SER	A	33	-21.995	-3.751	-0.436	1.00	0.00
ATOM 451	O	SER	A	33	-23.142	-4.079	-0.131	1.00	0.00
ATOM 452	CB	SER	A	33	-22.988	-2.155	-2.088	1.00	0.00
ATOM 453	OG	SER	A	33	-23.963	-1.530	-1.273	1.00	0.00
ATOM 454	H	SER	A	33	-20.210	-3.600	-2.254	1.00	0.00
ATOM 455	HA	SER	A	33	-21.503	-1.682	-0.622	1.00	0.00
ATOM 456	1HB	SER	A	33	-22.719	-1.480	-2.887	1.00	0.00
ATOM 457	2HB	SER	A	33	-23.409	-3.058	-2.505	1.00	0.00
ATOM 458	HG	SER	A	33	-24.718	-1.279	-1.811	1.00	0.00
ATOM 459	N	THR	A	34	-20.922	-4.439	-0.063	1.00	0.00

ATOM 460	CA	THR A	34	-21.031	-5.649	0.745	1.00	0.00
ATOM 461	C	THR A	34	-20.116	-5.574	1.962	1.00	0.00
ATOM 462	O	THR A	34	-19.474	-4.552	2.207	1.00	0.00
ATOM 463	CB	THR A	34	-20.687	-6.880	-0.094	1.00	0.00
ATOM 464	OG1	THR A	34	-19.303	-6.912	-0.394	1.00	0.00
ATOM 465	CG2	THR A	34	-21.443	-6.942	-1.404	1.00	0.00
ATOM 466	H	THR A	34	-20.034	-4.127	-0.337	1.00	0.00
ATOM 467	HA	THR A	34	-22.054	-5.729	1.083	1.00	0.00
ATOM 468	HB	THR A	34	-20.933	-7.768	0.472	1.00	0.00
ATOM 469	HG1	THR A	34	-18.877	-7.590	0.136	1.00	0.00
ATOM 470	1HG2	THR A	34	-22.167	-7.743	-1.363	1.00	0.00
ATOM 471	2HG2	THR A	34	-20.749	-7.125	-2.211	1.00	0.00
ATOM 472	3HG2	THR A	34	-21.951	-6.005	-1.571	1.00	0.00
ATOM 473	N	THR A	35	-20.061	-6.661	2.725	1.00	0.00
ATOM 474	CA	THR A	35	-19.227	-6.716	3.918	1.00	0.00
ATOM 475	C	THR A	35	-17.784	-7.066	3.564	1.00	0.00
ATOM 476	O	THR A	35	-16.852	-6.366	3.958	1.00	0.00
ATOM 477	CB	THR A	35	-19.784	-7.741	4.908	1.00	0.00
ATOM 478	OG1	THR A	35	-21.182	-7.579	5.064	1.00	0.00
ATOM 479	CG2	THR A	35	-19.155	-7.650	6.282	1.00	0.00
ATOM 480	H	THR A	35	-20.598	-7.443	2.478	1.00	0.00
ATOM 481	HA	THR A	35	-19.244	-5.741	4.380	1.00	0.00
ATOM 482	HB	THR A	35	-19.598	-8.734	4.525	1.00	0.00
ATOM 483	HG1	THR A	35	-21.370	-6.682	5.353	1.00	0.00
ATOM 484	1HG2	THR A	35	-19.605	-6.834	6.830	1.00	0.00
ATOM 485	2HG2	THR A	35	-18.095	-7.474	6.181	1.00	0.00
ATOM 486	3HG2	THR A	35	-19.318	-8.575	6.815	1.00	0.00

ATOM 487	N	LYS A	36	-17.607	-8.154	2.820	1.00	0.00
ATOM 488	CA	LYS A	36	-16.276	-8.597	2.417	1.00	0.00
ATOM 489	C	LYS A	36	-15.543	-7.503	1.647	1.00	0.00
ATOM 490	O	LYS A	36	-14.315	-7.429	1.673	1.00	0.00
ATOM 491	CB	LYS A	36	-16.373	-9.861	1.560	1.00	0.00
ATOM 492	CG	LYS A	36	-15.164	-10.774	1.688	1.00	0.00
ATOM 493	CD	LYS A	36	-15.371	-12.083	0.943	1.00	0.00
ATOM 494	CE	LYS A	36	-14.257	-13.074	1.240	1.00	0.00
ATOM 495	NZ	LYS A	36	-14.768	-14.469	1.345	1.00	0.00
ATOM 496	H	LYS A	36	-18.390	-8.673	2.538	1.00	0.00
ATOM 497	HA	LYS A	36	-15.718	-8.823	3.312	1.00	0.00
ATOM 498	1HB	LYS A	36	-17.250	-10.417	1.857	1.00	0.00
ATOM 499	2HB	LYS A	36	-16.473	-9.573	0.524	1.00	0.00
ATOM 500	1HG	LYS A	36	-14.301	-10.271	1.276	1.00	0.00
ATOM 501	2HG	LYS A	36	-14.995	-10.987	2.733	1.00	0.00
ATOM 502	1HD	LYS A	36	-16.314	-12.513	1.248	1.00	0.00
ATOM 503	2HD	LYS A	36	-15.391	-11.883	-0.119	1.00	0.00
ATOM 504	1HE	LYS A	36	-13.529	-13.026	0.443	1.00	0.00
ATOM 505	2HE	LYS A	36	-13.788	-12.799	2.173	1.00	0.00
ATOM 506	1HZ	LYS A	36	-15.660	-14.564	0.818	1.00	0.00
ATOM 507	2HZ	LYS A	36	-14.939	-14.712	2.342	1.00	0.00
ATOM 508	3HZ	LYS A	36	-14.072	-15.134	0.953	1.00	0.00
ATOM 509	N	TYR A	37	-16.304	-6.654	0.962	1.00	0.00
ATOM 510	CA	TYR A	37	-15.725	-5.565	0.185	1.00	0.00
ATOM 511	C	TYR A	37	-15.296	-4.416	1.094	1.00	0.00
ATOM 512	O	TYR A	37	-14.173	-3.922	0.998	1.00	0.00
ATOM 513	CB	TYR A	37	-16.730	-5.061	-0.853	1.00	0.00

ATOM 514	CG	TYR A	37	-16.217	-3.911	-1.689	1.00	0.00
ATOM 515	CD1	TYR A	37	-16.418	-2.596	-1.292	1.00	0.00
ATOM 516	CD2	TYR A	37	-15.533	-4.141	-2.876	1.00	0.00
ATOM 517	CE1	TYR A	37	-15.952	-1.541	-2.054	1.00	0.00
ATOM 518	CE2	TYR A	37	-15.062	-3.093	-3.644	1.00	0.00
ATOM 519	CZ	TYR A	37	-15.275	-1.795	-3.229	1.00	0.00
ATOM 520	OH	TYR A	37	-14.809	-0.748	-3.991	1.00	0.00
ATOM 521	H	TYR A	37	-17.278	-6.764	0.980	1.00	0.00
ATOM 522	HA	TYR A	37	-14.855	-5.948	-0.326	1.00	0.00
ATOM 523	1HB	TYR A	37	-16.979	-5.872	-1.522	1.00	0.00
ATOM 524	2HB	TYR A	37	-17.625	-4.732	-0.347	1.00	0.00
ATOM 525	HD1	TYR A	37	-16.948	-2.400	-0.371	1.00	0.00
ATOM 526	HD2	TYR A	37	-15.368	-5.158	-3.199	1.00	0.00
ATOM 527	HE1	TYR A	37	-16.117	-0.525	-1.729	1.00	0.00
ATOM 528	HE2	TYR A	37	-14.533	-3.291	-4.564	1.00	0.00
ATOM 529	HH	TYR A	37	-15.522	-0.126	-4.152	1.00	0.00
ATOM 530	N	GLN A	38	-16.197	-3.997	1.976	1.00	0.00
ATOM 531	CA	GLN A	38	-15.913	-2.907	2.901	1.00	0.00
ATOM 532	C	GLN A	38	-14.890	-3.332	3.950	1.00	0.00
ATOM 533	O	GLN A	38	-14.114	-2.512	4.442	1.00	0.00
ATOM 534	CB	GLN A	38	-17.200	-2.443	3.585	1.00	0.00
ATOM 535	CG	GLN A	38	-18.280	-2.000	2.612	1.00	0.00
ATOM 536	CD	GLN A	38	-18.364	-0.491	2.481	1.00	0.00
ATOM 537	OE1	GLN A	38	-17.934	0.244	3.368	1.00	0.00
ATOM 538	NE2	GLN A	38	-18.920	-0.024	1.369	1.00	0.00
ATOM 539	H	GLN A	38	-17.076	-4.431	2.004	1.00	0.00
ATOM 540	HA	GLN A	38	-15.505	-2.086	2.331	1.00	0.00

ATOM 541	1HB	GLN	A	38	-17.593	-3.257	4.178	1.00	0.00
ATOM 542	2HB	GLN	A	38	-16.970	-1.613	4.237	1.00	0.00
ATOM 543	1HG	GLN	A	38	-18.066	-2.419	1.640	1.00	0.00
ATOM 544	2HG	GLN	A	38	-19.234	-2.370	2.959	1.00	0.00
ATOM 545	1HE2	GLN	A	38	-19.240	-0.670	0.706	1.00	0.00
ATOM 546	2HE2	GLN	A	38	-18.987	0.947	1.259	1.00	0.00
ATOM 547	N	GLN	A	39	-14.896	-4.616	4.291	1.00	0.00
ATOM 548	CA	GLN	A	39	-13.969	-5.149	5.284	1.00	0.00
ATOM 549	C	GLN	A	39	-12.559	-5.260	4.713	1.00	0.00
ATOM 550	O	GLN	A	39	-11.579	-4.948	5.389	1.00	0.00
ATOM 551	CB	GLN	A	39	-14.442	-6.520	5.772	1.00	0.00
ATOM 552	CG	GLN	A	39	-15.381	-6.451	6.965	1.00	0.00
ATOM 553	CD	GLN	A	39	-15.149	-7.576	7.954	1.00	0.00
ATOM 554	OE1	GLN	A	39	-14.026	-8.054	8.115	1.00	0.00
ATOM 555	NE2	GLN	A	39	-16.212	-8.004	8.624	1.00	0.00
ATOM 556	H	GLN	A	39	-15.538	-5.222	3.865	1.00	0.00
ATOM 557	HA	GLN	A	39	-13.953	-4.466	6.120	1.00	0.00
ATOM 558	1HB	GLN	A	39	-14.958	-7.017	4.963	1.00	0.00
ATOM 559	2HB	GLN	A	39	-13.580	-7.106	6.053	1.00	0.00
ATOM 560	1HG	GLN	A	39	-15.230	-5.510	7.472	1.00	0.00
ATOM 561	2HG	GLN	A	39	-16.399	-6.508	6.609	1.00	0.00
ATOM 562	1HE2	GLN	A	39	-17.076	-7.577	8.445	1.00	0.00
ATOM 563	2HE2	GLN	A	39	-16.090	-8.731	9.270	1.00	0.00
ATOM 564	N	THR	A	40	-12.464	-5.707	3.465	1.00	0.00
ATOM 565	CA	THR	A	40	-11.173	-5.860	2.805	1.00	0.00
ATOM 566	C	THR	A	40	-10.577	-4.502	2.449	1.00	0.00
ATOM 567	O	THR	A	40	-9.401	-4.243	2.708	1.00	0.00

ATOM 568	CB	THR A	40	-11.320	-6.712	1.543	1.00	0.00
ATOM 569	OG1	THR A	40	-11.882	-7.975	1.854	1.00	0.00
ATOM 570	CG2	THR A	40	-10.008	-6.957	0.830	1.00	0.00
ATOM 571	H	THR A	40	-13.281	-5.940	2.977	1.00	0.00
ATOM 572	HA	THR A	40	-10.509	-6.363	3.491	1.00	0.00
ATOM 573	HB	THR A	40	-11.982	-6.206	0.855	1.00	0.00
ATOM 574	HG1	THR A	40	-12.587	-8.174	1.234	1.00	0.00
ATOM 575	1HG2	THR A	40	-10.197	-7.144	-0.216	1.00	0.00
ATOM 576	2HG2	THR A	40	-9.516	-7.814	1.266	1.00	0.00
ATOM 577	3HG2	THR A	40	-9.376	-6.088	0.932	1.00	0.00
ATOM 578	N	LYS A	41	-11.395	-3.639	1.856	1.00	0.00
ATOM 579	CA	LYS A	41	-10.946	-2.307	1.465	1.00	0.00
ATOM 580	C	LYS A	41	-10.433	-1.528	2.671	1.00	0.00
ATOM 581	O	LYS A	41	-9.352	-0.939	2.629	1.00	0.00
ATOM 582	CB	LYS A	41	-12.087	-1.538	0.794	1.00	0.00
ATOM 583	CG	LYS A	41	-11.653	-0.215	0.185	1.00	0.00
ATOM 584	CD	LYS A	41	-12.844	0.582	-0.324	1.00	0.00
ATOM 585	CE	LYS A	41	-13.005	0.448	-1.832	1.00	0.00
ATOM 586	NZ	LYS A	41	-13.025	1.774	-2.510	1.00	0.00
ATOM 587	H	LYS A	41	-12.321	-3.903	1.676	1.00	0.00
ATOM 588	HA	LYS A	41	-10.139	-2.424	0.757	1.00	0.00
ATOM 589	1HB	LYS A	41	-12.506	-2.150	0.010	1.00	0.00
ATOM 590	2HB	LYS A	41	-12.852	-1.338	1.529	1.00	0.00
ATOM 591	1HG	LYS A	41	-11.140	0.367	0.938	1.00	0.00
ATOM 592	2HG	LYS A	41	-10.983	-0.411	-0.640	1.00	0.00
ATOM 593	1HD	LYS A	41	-13.740	0.219	0.156	1.00	0.00
ATOM 594	2HD	LYS A	41	-12.699	1.624	-0.079	1.00	0.00

ATOM 595	1HE	LYS	A	41	-12.182	-0.133	-2.220	1.00	0.00
ATOM 596	2HE	LYS	A	41	-13.934	-0.066	-2.036	1.00	0.00
ATOM 597	1HZ	LYS	A	41	-12.093	1.976	-2.926	1.00	0.00
ATOM 598	2HZ	LYS	A	41	-13.256	2.522	-1.826	1.00	0.00
ATOM 599	3HZ	LYS	A	41	-13.740	1.778	-3.266	1.00	0.00
ATOM 600	N	ARG	A	42	-11.215	-1.528	3.745	1.00	0.00
ATOM 601	CA	ARG	A	42	-10.839	-0.821	4.964	1.00	0.00
ATOM 602	C	ARG	A	42	-9.553	-1.394	5.553	1.00	0.00
ATOM 603	O	ARG	A	42	-8.777	-0.679	6.186	1.00	0.00
ATOM 604	CB	ARG	A	42	-11.967	-0.905	5.995	1.00	0.00
ATOM 605	CG	ARG	A	42	-11.962	0.239	6.997	1.00	0.00
ATOM 606	CD	ARG	A	42	-12.230	1.575	6.321	1.00	0.00
ATOM 607	NE	ARG	A	42	-11.227	2.577	6.671	1.00	0.00
ATOM 608	CZ	ARG	A	42	-11.072	3.076	7.895	1.00	0.00
ATOM 609	NH1	ARG	A	42	-11.852	2.667	8.889	1.00	0.00
ATOM 610	NH2	ARG	A	42	-10.136	3.986	8.127	1.00	0.00
ATOM 611	H	ARG	A	42	-12.065	-2.015	3.719	1.00	0.00
ATOM 612	HA	ARG	A	42	-10.674	0.215	4.710	1.00	0.00
ATOM 613	1HB	ARG	A	42	-12.914	-0.897	5.477	1.00	0.00
ATOM 614	2HB	ARG	A	42	-11.873	-1.833	6.540	1.00	0.00
ATOM 615	1HG	ARG	A	42	-12.728	0.061	7.736	1.00	0.00
ATOM 616	2HG	ARG	A	42	-10.996	0.277	7.479	1.00	0.00
ATOM 617	1HD	ARG	A	42	-12.224	1.432	5.251	1.00	0.00
ATOM 618	2HD	ARG	A	42	-13.203	1.930	6.630	1.00	0.00
ATOM 619	HE	ARG	A	42	-10.637	2.895	5.956	1.00	0.00
ATOM 620	1HH1	ARG	A	42	-12.559	1.980	8.722	1.00	0.00
ATOM 621	2HH1	ARG	A	42	-11.730	3.045	9.807	1.00	0.00



ATOM 622	1HH2	ARG	A	42	-9.546	4.297	7.382	1.00	0.00
ATOM 623	2HH2	ARG	A	42	-10.020	4.361	9.047	1.00	0.00
ATOM 624	N	SER	A	43	-9.336	-2.688	5.340	1.00	0.00
ATOM 625	CA	SER	A	43	-8.145	-3.356	5.851	1.00	0.00
ATOM 626	C	SER	A	43	-6.898	-2.901	5.096	1.00	0.00
ATOM 627	O	SER	A	43	-5.844	-2.685	5.693	1.00	0.00
ATOM 628	CB	SER	A	43	-8.299	-4.875	5.738	1.00	0.00
ATOM 629	OG	SER	A	43	-8.360	-5.479	7.019	1.00	0.00
ATOM 630	H	SER	A	43	-9.992	-3.206	4.829	1.00	0.00
ATOM 631	HA	SER	A	43	-8.036	-3.092	6.891	1.00	0.00
ATOM 632	1HB	SER	A	43	-9.210	-5.104	5.204	1.00	0.00
ATOM 633	2HB	SER	A	43	-7.456	-5.284	5.202	1.00	0.00
ATOM 634	HG	SER	A	43	-8.336	-6.433	6.925	1.00	0.00
ATOM 635	N	ILE	A	44	-7.028	-2.758	3.781	1.00	0.00
ATOM 636	CA	ILE	A	44	-5.912	-2.330	2.946	1.00	0.00
ATOM 637	C	ILE	A	44	-5.570	-0.864	3.196	1.00	0.00
ATOM 638	O	ILE	A	44	-4.407	-0.514	3.397	1.00	0.00
ATOM 639	CB	ILE	A	44	-6.220	-2.526	1.448	1.00	0.00
ATOM 640	CG1	ILE	A	44	-6.702	-3.955	1.186	1.00	0.00
ATOM 641	CG2	ILE	A	44	-4.991	-2.216	0.608	1.00	0.00
ATOM 642	CD1	ILE	A	44	-7.585	-4.079	-0.036	1.00	0.00
ATOM 643	H	ILE	A	44	-7.893	-2.946	3.362	1.00	0.00
ATOM 644	HA	ILE	A	44	-5.055	-2.936	3.198	1.00	0.00
ATOM 645	HB	ILE	A	44	-7.000	-1.834	1.170	1.00	0.00
ATOM 646	1HG1	ILE	A	44	-5.845	-4.596	1.042	1.00	0.00
ATOM 647	2HG1	ILE	A	44	-7.265	-4.301	2.040	1.00	0.00
ATOM 648	1HG2	ILE	A	44	-5.280	-2.107	-0.427	1.00	0.00

ATOM 649	2HG2	ILE	A	44	-4.279	-3.023	0.700	1.00	0.00
ATOM 650	3HG2	ILE	A	44	-4.539	-1.298	0.954	1.00	0.00
ATOM 651	1HD1	ILE	A	44	-7.261	-4.920	-0.631	1.00	0.00
ATOM 652	2HD1	ILE	A	44	-7.516	-3.175	-0.624	1.00	0.00
ATOM 653	3HD1	ILE	A	44	-8.609	-4.230	0.272	1.00	0.00
ATOM 654	N	GLU	A	45	-6.589	-0.012	3.183	1.00	0.00
ATOM 655	CA	GLU	A	45	-6.396	1.416	3.409	1.00	0.00
ATOM 656	C	GLU	A	45	-5.776	1.670	4.780	1.00	0.00
ATOM 657	O	GLU	A	45	-4.871	2.493	4.919	1.00	0.00
ATOM 658	CB	GLU	A	45	-7.729	2.158	3.289	1.00	0.00
ATOM 659	CG	GLU	A	45	-7.740	3.217	2.199	1.00	0.00
ATOM 660	CD	GLU	A	45	-7.162	4.539	2.665	1.00	0.00
ATOM 661	OE1	GLU	A	45	-7.917	5.533	2.713	1.00	0.00
ATOM 662	OE2	GLU	A	45	-5.955	4.580	2.982	1.00	0.00
ATOM 663	H	GLU	A	45	-7.495	-0.352	3.018	1.00	0.00
ATOM 664	HA	GLU	A	45	-5.721	1.782	2.649	1.00	0.00
ATOM 665	1HB	GLU	A	45	-8.508	1.441	3.071	1.00	0.00
ATOM 666	2HB	GLU	A	45	-7.949	2.639	4.231	1.00	0.00
ATOM 667	1HG	GLU	A	45	-7.156	2.861	1.363	1.00	0.00
ATOM 668	2HG	GLU	A	45	-8.760	3.378	1.882	1.00	0.00
ATOM 669	N	ASN	A	46	-6.269	0.958	5.788	1.00	0.00
ATOM 670	CA	ASN	A	46	-5.763	1.106	7.148	1.00	0.00
ATOM 671	C	ASN	A	46	-4.345	0.558	7.265	1.00	0.00
ATOM 672	O	ASN	A	46	-3.454	1.221	7.796	1.00	0.00
ATOM 673	CB	ASN	A	46	-6.683	0.388	8.136	1.00	0.00
ATOM 674	CG	ASN	A	46	-6.267	0.607	9.578	1.00	0.00
ATOM 675	OD1	ASN	A	46	-5.813	1.690	9.947	1.00	0.00

ATOM 676	ND2	ASN A	46	-6.419	-0.424	10.401	1.00	0.00
ATOM 677	H	ASN A	46	-6.990	0.317	5.613	1.00	0.00
ATOM 678	HA	ASN A	46	-5.750	2.160	7.382	1.00	0.00
ATOM 679	1HB	ASN A	46	-7.691	0.755	8.013	1.00	0.00
ATOM 680	2HB	ASN A	46	-6.663	-0.672	7.932	1.00	0.00
ATOM 681	1HD2	ASN A	46	-6.786	-1.257	10.037	1.00	0.00
ATOM 682	2HD2	ASN A	46	-6.157	-0.310	11.339	1.00	0.00
ATOM 683	N	ALA A	47	-4.142	-0.657	6.766	1.00	0.00
ATOM 684	CA	ALA A	47	-2.832	-1.295	6.815	1.00	0.00
ATOM 685	C	ALA A	47	-1.809	-0.513	5.999	1.00	0.00
ATOM 686	O	ALA A	47	-0.621	-0.497	6.322	1.00	0.00
ATOM 687	CB	ALA A	47	-2.924	-2.728	6.314	1.00	0.00
ATOM 688	H	ALA A	47	-4.892	-1.137	6.356	1.00	0.00
ATOM 689	HA	ALA A	47	-2.512	-1.319	7.847	1.00	0.00
ATOM 690	1HB	ALA A	47	-3.618	-2.777	5.488	1.00	0.00
ATOM 691	2HB	ALA A	47	-3.269	-3.367	7.113	1.00	0.00
ATOM 692	3HB	ALA A	47	-1.950	-3.058	5.985	1.00	0.00
ATOM 693	N	LEU A	48	-2.278	0.137	4.939	1.00	0.00
ATOM 694	CA	LEU A	48	-1.404	0.921	4.074	1.00	0.00
ATOM 695	C	LEU A	48	-0.966	2.208	4.767	1.00	0.00
ATOM 696	O	LEU A	48	0.148	2.687	4.561	1.00	0.00
ATOM 697	CB	LEU A	48	-2.115	1.250	2.760	1.00	0.00
ATOM 698	CG	LEU A	48	-1.931	0.216	1.648	1.00	0.00
ATOM 699	CD1	LEU A	48	-2.866	0.510	0.486	1.00	0.00
ATOM 700	CD2	LEU A	48	-0.484	0.192	1.178	1.00	0.00
ATOM 701	H	LEU A	48	-3.234	0.086	4.731	1.00	0.00
ATOM 702	HA	LEU A	48	-0.529	0.326	3.860	1.00	0.00

ATOM 703	1HB	LEU	A	48	-3.171	1.348	2.961	1.00	0.00
ATOM 704	2HB	LEU	A	48	-1.745	2.200	2.402	1.00	0.00
ATOM 705	HG	LEU	A	48	-2.174	-0.764	2.032	1.00	0.00
ATOM 706	1HD1	LEU	A	48	-3.861	0.698	0.861	1.00	0.00
ATOM 707	2HD1	LEU	A	48	-2.888	-0.338	-0.183	1.00	0.00
ATOM 708	3HD1	LEU	A	48	-2.514	1.380	-0.049	1.00	0.00
ATOM 709	1HD2	LEU	A	48	-0.362	-0.574	0.427	1.00	0.00
ATOM 710	2HD2	LEU	A	48	0.163	-0.019	2.017	1.00	0.00
ATOM 711	3HD2	LEU	A	48	-0.226	1.154	0.758	1.00	0.00
ATOM 712	N	ASN	A	49	-1.852	2.761	5.590	1.00	0.00
ATOM 713	CA	ASN	A	49	-1.556	3.992	6.314	1.00	0.00
ATOM 714	C	ASN	A	49	-0.395	3.788	7.283	1.00	0.00
ATOM 715	O	ASN	A	49	0.456	4.663	7.442	1.00	0.00
ATOM 716	CB	ASN	A	49	-2.797	4.470	7.073	1.00	0.00
ATOM 717	CG	ASN	A	49	-3.320	5.794	6.553	1.00	0.00
ATOM 718	OD1	ASN	A	49	-2.800	6.856	6.894	1.00	0.00
ATOM 719	ND2	ASN	A	49	-4.354	5.736	5.722	1.00	0.00
ATOM 720	H	ASN	A	49	-2.723	2.331	5.713	1.00	0.00
ATOM 721	HA	ASN	A	49	-1.277	4.743	5.591	1.00	0.00
ATOM 722	1HB	ASN	A	49	-3.580	3.731	6.971	1.00	0.00
ATOM 723	2HB	ASN	A	49	-2.552	4.586	8.119	1.00	0.00
ATOM 724	1HD2	ASN	A	49	-4.717	4.855	5.494	1.00	0.00
ATOM 725	2HD2	ASN	A	49	-4.713	6.578	5.369	1.00	0.00
ATOM 726	N	GLN	A	50	-0.369	2.626	7.927	1.00	0.00
ATOM 727	CA	GLN	A	50	0.683	2.301	8.881	1.00	0.00
ATOM 728	C	GLN	A	50	2.038	2.206	8.186	1.00	0.00
ATOM 729	O	GLN	A	50	2.995	2.878	8.571	1.00	0.00

ATOM 730	CB	GLN A	50	0.360	0.980	9.581	1.00	0.00
ATOM 731	CG	GLN A	50	0.460	1.055	11.094	1.00	0.00
ATOM 732	CD	GLN A	50	1.783	0.533	11.619	1.00	0.00
ATOM 733	OE1	GLN A	50	2.487	1.222	12.357	1.00	0.00
ATOM 734	NE2	GLN A	50	2.130	-0.692	11.238	1.00	0.00
ATOM 735	H	GLN A	50	-1.076	1.970	7.758	1.00	0.00
ATOM 736	HA	GLN A	50	0.721	3.090	9.617	1.00	0.00
ATOM 737	1HB	GLN A	50	-0.647	0.688	9.323	1.00	0.00
ATOM 738	2HB	GLN A	50	1.045	0.223	9.232	1.00	0.00
ATOM 739	1HG	GLN A	50	0.350	2.084	11.399	1.00	0.00
ATOM 740	2HG	GLN A	50	-0.337	0.466	11.522	1.00	0.00
ATOM 741	1HE2	GLN A	50	1.520	-1.183	10.648	1.00	0.00
ATOM 742	2HE2	GLN A	50	2.981	-1.055	11.563	1.00	0.00
ATOM 743	N	LEU A	51	2.111	1.361	7.162	1.00	0.00
ATOM 744	CA	LEU A	51	3.346	1.165	6.407	1.00	0.00
ATOM 745	C	LEU A	51	3.965	2.497	5.993	1.00	0.00
ATOM 746	O	LEU A	51	5.185	2.662	6.025	1.00	0.00
ATOM 747	CB	LEU A	51	3.075	0.310	5.167	1.00	0.00
ATOM 748	CG	LEU A	51	4.315	-0.325	4.534	1.00	0.00
ATOM 749	CD1	LEU A	51	3.954	-1.638	3.857	1.00	0.00
ATOM 750	CD2	LEU A	51	4.952	0.633	3.538	1.00	0.00
ATOM 751	H	LEU A	51	1.312	0.852	6.909	1.00	0.00
ATOM 752	HA	LEU A	51	4.043	0.642	7.046	1.00	0.00
ATOM 753	1HB	LEU A	51	2.393	-0.481	5.443	1.00	0.00
ATOM 754	2HB	LEU A	51	2.597	0.931	4.425	1.00	0.00
ATOM 755	HG	LEU A	51	5.039	-0.536	5.307	1.00	0.00
ATOM 756	1HD1	LEU A	51	3.629	-2.350	4.602	1.00	0.00

ATOM 757	2HD1	LEU	A	51	4.821	-2.027	3.341	1.00	0.00
ATOM 758	3HD1	LEU	A	51	3.158	-1.471	3.148	1.00	0.00
ATOM 759	1HD2	LEU	A	51	5.686	0.103	2.949	1.00	0.00
ATOM 760	2HD2	LEU	A	51	5.431	1.440	4.071	1.00	0.00
ATOM 761	3HD2	LEU	A	51	4.190	1.035	2.886	1.00	0.00
ATOM 762	N	PHE	A	52	3.119	3.445	5.602	1.00	0.00
ATOM 763	CA	PHE	A	52	3.590	4.760	5.179	1.00	0.00
ATOM 764	C	PHE	A	52	4.364	5.450	6.298	1.00	0.00
ATOM 765	O	PHE	A	52	5.454	5.976	6.078	1.00	0.00
ATOM 766	CB	PHE	A	52	2.411	5.636	4.747	1.00	0.00
ATOM 767	CG	PHE	A	52	1.552	5.016	3.678	1.00	0.00
ATOM 768	CD1	PHE	A	52	0.190	5.270	3.638	1.00	0.00
ATOM 769	CD2	PHE	A	52	2.104	4.186	2.716	1.00	0.00
ATOM 770	CE1	PHE	A	52	-0.604	4.705	2.659	1.00	0.00
ATOM 771	CE2	PHE	A	52	1.313	3.618	1.735	1.00	0.00
ATOM 772	CZ	PHE	A	52	-0.043	3.879	1.706	1.00	0.00
ATOM 773	H	PHE	A	52	2.157	3.256	5.594	1.00	0.00
ATOM 774	HA	PHE	A	52	4.249	4.620	4.336	1.00	0.00
ATOM 775	1HB	PHE	A	52	1.784	5.829	5.604	1.00	0.00
ATOM 776	2HB	PHE	A	52	2.790	6.574	4.367	1.00	0.00
ATOM 777	HD1	PHE	A	52	-0.250	5.916	4.382	1.00	0.00
ATOM 778	HD2	PHE	A	52	3.164	3.980	2.737	1.00	0.00
ATOM 779	HE1	PHE	A	52	-1.665	4.911	2.640	1.00	0.00
ATOM 780	HE2	PHE	A	52	1.755	2.972	0.991	1.00	0.00
ATOM 781	HZ	PHE	A	52	-0.663	3.437	0.941	1.00	0.00
ATOM 782	N	ARG	A	53	3.793	5.445	7.498	1.00	0.00
ATOM 783	CA	ARG	A	53	4.430	6.073	8.650	1.00	0.00

ATOM 784	C	ARG A	53	5.593	5.230	9.175	1.00	0.00
ATOM 785	O	ARG A	53	6.332	5.664	10.059	1.00	0.00
ATOM 786	CB	ARG A	53	3.405	6.298	9.764	1.00	0.00
ATOM 787	CG	ARG A	53	2.537	7.526	9.552	1.00	0.00
ATOM 788	CD	ARG A	53	1.486	7.666	10.643	1.00	0.00
ATOM 789	NE	ARG A	53	0.781	6.409	10.889	1.00	0.00
ATOM 790	CZ	ARG A	53	1.189	5.483	11.756	1.00	0.00
ATOM 791	NH1	ARG A	53	2.299	5.661	12.461	1.00	0.00
ATOM 792	NH2	ARG A	53	0.482	4.372	11.917	1.00	0.00
ATOM 793	H	ARG A	53	2.922	5.010	7.611	1.00	0.00
ATOM 794	HA	ARG A	53	4.813	7.031	8.333	1.00	0.00
ATOM 795	1HB	ARG A	53	2.761	5.433	9.824	1.00	0.00
ATOM 796	2HB	ARG A	53	3.929	6.411	10.702	1.00	0.00
ATOM 797	1HG	ARG A	53	3.165	8.404	9.558	1.00	0.00
ATOM 798	2HG	ARG A	53	2.042	7.443	8.595	1.00	0.00
ATOM 799	1HD	ARG A	53	1.971	7.983	11.553	1.00	0.00
ATOM 800	2HD	ARG A	53	0.770	8.415	10.338	1.00	0.00
ATOM 801	HE	ARG A	53	-0.042	6.246	10.382	1.00	0.00
ATOM 802	1HH1	ARG A	53	2.839	6.494	12.345	1.00	0.00
ATOM 803	2HH1	ARG A	53	2.597	4.961	13.109	1.00	0.00
ATOM 804	1HH2	ARG A	53	-0.356	4.232	11.389	1.00	0.00
ATOM 805	2HH2	ARG A	53	0.786	3.676	12.567	1.00	0.00
ATOM 806	N	ASN A	54	5.753	4.026	8.631	1.00	0.00
ATOM 807	CA	ASN A	54	6.828	3.136	9.053	1.00	0.00
ATOM 808	C	ASN A	54	7.994	3.184	8.070	1.00	0.00
ATOM 809	O	ASN A	54	9.145	2.967	8.446	1.00	0.00
ATOM 810	CB	ASN A	54	6.312	1.702	9.180	1.00	0.00

ATOM 811	CG	ASN A	54	5.854	1.374	10.587	1.00	0.00
ATOM 812	OD1	ASN A	54	6.671	1.194	11.492	1.00	0.00
ATOM 813	ND2	ASN A	54	4.543	1.295	10.780	1.00	0.00
ATOM 814	H	ASN A	54	5.135	3.729	7.931	1.00	0.00
ATOM 815	HA	ASN A	54	7.174	3.470	10.019	1.00	0.00
ATOM 816	1HB	ASN A	54	5.476	1.566	8.509	1.00	0.00
ATOM 817	2HB	ASN A	54	7.101	1.015	8.907	1.00	0.00
ATOM 818	1HD2	ASN A	54	3.952	1.451	10.014	1.00	0.00
ATOM 819	2HD2	ASN A	54	4.220	1.085	11.681	1.00	0.00
ATOM 820	N	SER A	55	7.687	3.471	6.808	1.00	0.00
ATOM 821	CA	SER A	55	8.711	3.547	5.771	1.00	0.00
ATOM 822	C	SER A	55	9.656	4.717	6.021	1.00	0.00
ATOM 823	O	SER A	55	9.468	5.492	6.959	1.00	0.00
ATOM 824	CB	SER A	55	8.061	3.686	4.393	1.00	0.00
ATOM 825	OG	SER A	55	7.172	4.788	4.357	1.00	0.00
ATOM 826	H	SER A	55	6.752	3.633	6.568	1.00	0.00
ATOM 827	HA	SER A	55	9.280	2.629	5.800	1.00	0.00
ATOM 828	1HB	SER A	55	8.829	3.835	3.649	1.00	0.00
ATOM 829	2HB	SER A	55	7.509	2.786	4.165	1.00	0.00
ATOM 830	HG	SER A	55	6.269	4.470	4.277	1.00	0.00
ATOM 831	N	SER A	56	10.673	4.839	5.175	1.00	0.00
ATOM 832	CA	SER A	56	11.651	5.914	5.300	1.00	0.00
ATOM 833	C	SER A	56	11.122	7.212	4.692	1.00	0.00
ATOM 834	O	SER A	56	11.572	8.302	5.045	1.00	0.00
ATOM 835	CB	SER A	56	12.966	5.517	4.625	1.00	0.00
ATOM 836	OG	SER A	56	13.998	5.346	5.581	1.00	0.00
ATOM 837	H	SER A	56	10.770	4.190	4.446	1.00	0.00



ATOM 838	HA	SER A	56	11.831	6.074	6.353	1.00	0.00
ATOM 839	1HB	SER A	56	12.829	4.587	4.094	1.00	0.00
ATOM 840	2HB	SER A	56	13.261	6.288	3.928	1.00	0.00
ATOM 841	HG	SER A	56	13.661	4.853	6.332	1.00	0.00
ATOM 842	N	ILE A	57	10.164	7.089	3.777	1.00	0.00
ATOM 843	CA	ILE A	57	9.578	8.253	3.123	1.00	0.00
ATOM 844	C	ILE A	57	8.327	8.726	3.860	1.00	0.00
ATOM 845	O	ILE A	57	7.300	9.011	3.243	1.00	0.00
ATOM 846	CB	ILE A	57	9.219	7.953	1.654	1.00	0.00
ATOM 847	CG1	ILE A	57	8.211	6.805	1.574	1.00	0.00
ATOM 848	CG2	ILE A	57	10.473	7.621	0.860	1.00	0.00
ATOM 849	CD1	ILE A	57	7.746	6.506	0.165	1.00	0.00
ATOM 850	H	ILE A	57	9.845	6.196	3.535	1.00	0.00
ATOM 851	HA	ILE A	57	10.312	9.046	3.137	1.00	0.00
ATOM 852	HB	ILE A	57	8.778	8.840	1.227	1.00	0.00
ATOM 853	1HG1	ILE A	57	8.664	5.908	1.969	1.00	0.00
ATOM 854	2HG1	ILE A	57	7.343	7.055	2.165	1.00	0.00
ATOM 855	1HG2	ILE A	57	10.999	8.533	0.617	1.00	0.00
ATOM 856	2HG2	ILE A	57	10.198	7.110	-0.051	1.00	0.00
ATOM 857	3HG2	ILE A	57	11.115	6.983	1.449	1.00	0.00
ATOM 858	1HD1	ILE A	57	8.289	7.128	-0.532	1.00	0.00
ATOM 859	2HD1	ILE A	57	6.690	6.713	0.083	1.00	0.00
ATOM 860	3HD1	ILE A	57	7.929	5.467	-0.062	1.00	0.00
ATOM 861	N	LYS A	58	8.423	8.806	5.182	1.00	0.00
ATOM 862	CA	LYS A	58	7.301	9.244	6.006	1.00	0.00
ATOM 863	C	LYS A	58	7.397	10.736	6.309	1.00	0.00
ATOM 864	O	LYS A	58	7.091	11.176	7.417	1.00	0.00

ATOM 865	CB	LYS A	58	7.265	8.449	7.312	1.00	0.00
ATOM 866	CG	LYS A	58	8.596	8.430	8.045	1.00	0.00
ATOM 867	CD	LYS A	58	8.436	7.970	9.486	1.00	0.00
ATOM 868	CE	LYS A	58	8.594	9.124	10.462	1.00	0.00
ATOM 869	NZ	LYS A	58	9.985	9.224	10.983	1.00	0.00
ATOM 870	H	LYS A	58	9.268	8.566	5.615	1.00	0.00
ATOM 871	HA	LYS A	58	6.392	9.057	5.455	1.00	0.00
ATOM 872	1HB	LYS A	58	6.524	8.886	7.966	1.00	0.00
ATOM 873	2HB	LYS A	58	6.983	7.430	7.093	1.00	0.00
ATOM 874	1HG	LYS A	58	9.266	7.754	7.535	1.00	0.00
ATOM 875	2HG	LYS A	58	9.014	9.426	8.039	1.00	0.00
ATOM 876	1HD	LYS A	58	7.452	7.540	9.609	1.00	0.00
ATOM 877	2HD	LYS A	58	9.186	7.223	9.701	1.00	0.00
ATOM 878	1HE	LYS A	58	8.342	10.044	9.955	1.00	0.00
ATOM 879	2HE	LYS A	58	7.918	8.974	11.291	1.00	0.00
ATOM 880	1HZ	LYS A	58	9.975	9.556	11.969	1.00	0.00
ATOM 881	2HZ	LYS A	58	10.534	9.896	10.410	1.00	0.00
ATOM 882	3HZ	LYS A	58	10.449	8.294	10.946	1.00	0.00
ATOM 883	N	SER A	59	7.825	11.510	5.317	1.00	0.00
ATOM 884	CA	SER A	59	7.961	12.953	5.478	1.00	0.00
ATOM 885	C	SER A	59	6.822	13.689	4.782	1.00	0.00
ATOM 886	O	SER A	59	6.232	14.613	5.342	1.00	0.00
ATOM 887	CB	SER A	59	9.306	13.424	4.921	1.00	0.00
ATOM 888	OG	SER A	59	9.801	14.532	5.651	1.00	0.00
ATOM 889	H	SER A	59	8.054	11.101	4.457	1.00	0.00
ATOM 890	HA	SER A	59	7.923	13.172	6.535	1.00	0.00
ATOM 891	1HB	SER A	59	10.021	12.618	4.984	1.00	0.00

ATOM 892	2HB	SER A	59	9.182	13.715	3.888	1.00	0.00
ATOM 893	HG	SER A	59	10.058	14.246	6.531	1.00	0.00
ATOM 894	N	TYR A	60	6.519	13.275	3.556	1.00	0.00
ATOM 895	CA	TYR A	60	5.450	13.897	2.782	1.00	0.00
ATOM 896	C	TYR A	60	4.261	12.952	2.629	1.00	0.00
ATOM 897	O	TYR A	60	3.122	13.395	2.474	1.00	0.00
ATOM 898	CB	TYR A	60	5.967	14.312	1.403	1.00	0.00
ATOM 899	CG	TYR A	60	7.129	15.278	1.456	1.00	0.00
ATOM 900	CD1	TYR A	60	7.004	16.509	2.087	1.00	0.00
ATOM 901	CD2	TYR A	60	8.351	14.957	0.877	1.00	0.00
ATOM 902	CE1	TYR A	60	8.064	17.395	2.139	1.00	0.00
ATOM 903	CE2	TYR A	60	9.415	15.838	0.925	1.00	0.00
ATOM 904	CZ	TYR A	60	9.267	17.054	1.557	1.00	0.00
ATOM 905	OH	TYR A	60	10.324	17.933	1.607	1.00	0.00
ATOM 906	H	TYR A	60	7.026	12.535	3.162	1.00	0.00
ATOM 907	HA	TYR A	60	5.127	14.780	3.314	1.00	0.00
ATOM 908	1HB	TYR A	60	6.293	13.431	0.869	1.00	0.00
ATOM 909	2HB	TYR A	60	5.166	14.784	0.853	1.00	0.00
ATOM 910	HD1	TYR A	60	6.061	16.772	2.543	1.00	0.00
ATOM 911	HD2	TYR A	60	8.464	14.004	0.382	1.00	0.00
ATOM 912	HE1	TYR A	60	7.948	18.347	2.635	1.00	0.00
ATOM 913	HE2	TYR A	60	10.357	15.571	0.469	1.00	0.00
ATOM 914	HH	TYR A	60	10.740	17.984	0.744	1.00	0.00
ATOM 915	N	PHE A	61	4.531	11.651	2.672	1.00	0.00
ATOM 916	CA	PHE A	61	3.481	10.646	2.537	1.00	0.00
ATOM 917	C	PHE A	61	2.382	10.861	3.574	1.00	0.00
ATOM 918	O	PHE A	61	2.654	10.965	4.769	1.00	0.00

ATOM 919	CB	PHE A	61	4.068	9.242	2.685	1.00	0.00
ATOM 920	CG	PHE A	61	3.323	8.196	1.906	1.00	0.00
ATOM 921	CD1	PHE A	61	3.979	7.406	0.976	1.00	0.00
ATOM 922	CD2	PHE A	61	1.965	8.002	2.105	1.00	0.00
ATOM 923	CE1	PHE A	61	3.296	6.444	0.257	1.00	0.00
ATOM 924	CE2	PHE A	61	1.276	7.041	1.389	1.00	0.00
ATOM 925	CZ	PHE A	61	1.943	6.261	0.465	1.00	0.00
ATOM 926	H	PHE A	61	5.459	11.359	2.796	1.00	0.00
ATOM 927	HA	PHE A	61	3.053	10.745	1.551	1.00	0.00
ATOM 928	1HB	PHE A	61	5.091	9.247	2.338	1.00	0.00
ATOM 929	2HB	PHE A	61	4.049	8.959	3.727	1.00	0.00
ATOM 930	HD1	PHE A	61	5.037	7.548	0.813	1.00	0.00
ATOM 931	HD2	PHE A	61	1.443	8.612	2.828	1.00	0.00
ATOM 932	HE1	PHE A	61	3.818	5.835	-0.466	1.00	0.00
ATOM 933	HE2	PHE A	61	0.218	6.900	1.554	1.00	0.00
ATOM 934	HZ	PHE A	61	1.405	5.509	-0.095	1.00	0.00
ATOM 935	N	SER A	62	1.141	10.926	3.105	1.00	0.00
ATOM 936	CA	SER A	62	-0.001	11.129	3.989	1.00	0.00
ATOM 937	C	SER A	62	-0.811	9.844	4.135	1.00	0.00
ATOM 938	O	SER A	62	-0.877	9.259	5.215	1.00	0.00
ATOM 939	CB	SER A	62	-0.894	12.250	3.456	1.00	0.00
ATOM 940	OG	SER A	62	-1.465	12.996	4.516	1.00	0.00
ATOM 941	H	SER A	62	0.988	10.836	2.141	1.00	0.00
ATOM 942	HA	SER A	62	0.378	11.413	4.959	1.00	0.00
ATOM 943	1HB	SER A	62	-0.305	12.915	2.842	1.00	0.00
ATOM 944	2HB	SER A	62	-1.689	11.823	2.863	1.00	0.00
ATOM 945	HG	SER A	62	-1.510	13.922	4.269	1.00	0.00

ATOM 946	N	ASP	A	63	-1.426	9.412	3.039	1.00	0.00
ATOM 947	CA	ASP	A	63	-2.232	8.196	3.046	1.00	0.00
ATOM 948	C	ASP	A	63	-2.502	7.713	1.624	1.00	0.00
ATOM 949	O	ASP	A	63	-2.017	8.298	0.655	1.00	0.00
ATOM 950	CB	ASP	A	63	-3.556	8.440	3.772	1.00	0.00
ATOM 951	CG	ASP	A	63	-4.340	9.592	3.175	1.00	0.00
ATOM 952	OD1	ASP	A	63	-5.488	9.364	2.737	1.00	0.00
ATOM 953	OD2	ASP	A	63	-3.807	10.720	3.143	1.00	0.00
ATOM 954	H	ASP	A	63	-1.337	9.921	2.207	1.00	0.00
ATOM 955	HA	ASP	A	63	-1.677	7.434	3.572	1.00	0.00
ATOM 956	1HB	ASP	A	63	-4.161	7.548	3.713	1.00	0.00
ATOM 957	2HB	ASP	A	63	-3.355	8.666	4.809	1.00	0.00
ATOM 958	N	CYS	A	64	-3.280	6.642	1.508	1.00	0.00
ATOM 959	CA	CYS	A	64	-3.616	6.080	0.205	1.00	0.00
ATOM 960	C	CYS	A	64	-5.106	6.232	-0.085	1.00	0.00
ATOM 961	O	CYS	A	64	-5.899	6.508	0.816	1.00	0.00
ATOM 962	CB	CYS	A	64	-3.220	4.603	0.145	1.00	0.00
ATOM 963	SG	CYS	A	64	-2.442	4.110	-1.411	1.00	0.00
ATOM 964	H	CYS	A	64	-3.637	6.220	2.317	1.00	0.00
ATOM 965	HA	CYS	A	64	-3.059	6.622	-0.544	1.00	0.00
ATOM 966	1HB	CYS	A	64	-2.522	4.392	0.940	1.00	0.00
ATOM 967	2HB	CYS	A	64	-4.103	3.994	0.278	1.00	0.00
ATOM 968	HG	CYS	A	64	-3.087	4.222	-2.114	1.00	0.00
ATOM 969	N	GLN	A	65	-5.479	6.049	-1.346	1.00	0.00
ATOM 970	CA	GLN	A	65	-6.874	6.165	-1.755	1.00	0.00
ATOM 971	C	GLN	A	65	-7.284	4.976	-2.619	1.00	0.00
ATOM 972	O	GLN	A	65	-7.036	4.956	-3.824	1.00	0.00

ATOM 973	CB	GLN A	65	-7.095	7.470	-2.523	1.00	0.00
ATOM 974	CG	GLN A	65	-8.519	7.652	-3.023	1.00	0.00
ATOM 975	CD	GLN A	65	-9.517	7.821	-1.894	1.00	0.00
ATOM 976	OE1	GLN A	65	-9.184	8.334	-0.826	1.00	0.00
ATOM 977	NE2	GLN A	65	-10.751	7.388	-2.127	1.00	0.00
ATOM 978	H	GLN A	65	-4.801	5.830	-2.019	1.00	0.00
ATOM 979	HA	GLN A	65	-7.482	6.174	-0.863	1.00	0.00
ATOM 980	1HB	GLN A	65	-6.856	8.300	-1.873	1.00	0.00
ATOM 981	2HB	GLN A	65	-6.432	7.490	-3.375	1.00	0.00
ATOM 982	1HG	GLN A	65	-8.557	8.530	-3.650	1.00	0.00
ATOM 983	2HG	GLN A	65	-8.796	6.784	-3.603	1.00	0.00
ATOM 984	1HE2	GLN A	65	-10.944	6.991	-3.001	1.00	0.00
ATOM 985	2HE2	GLN A	65	-11.417	7.485	-1.414	1.00	0.00
ATOM 986	N	VAL A	66	-7.913	3.987	-1.992	1.00	0.00
ATOM 987	CA	VAL A	66	-8.358	2.794	-2.704	1.00	0.00
ATOM 988	C	VAL A	66	-9.491	3.124	-3.669	1.00	0.00
ATOM 989	O	VAL A	66	-10.608	3.430	-3.251	1.00	0.00
ATOM 990	CB	VAL A	66	-8.826	1.699	-1.725	1.00	0.00
ATOM 991	CG1	VAL A	66	-9.998	2.189	-0.888	1.00	0.00
ATOM 992	CG2	VAL A	66	-9.194	0.428	-2.479	1.00	0.00
ATOM 993	H	VAL A	66	-8.081	4.060	-1.030	1.00	0.00
ATOM 994	HA	VAL A	66	-7.519	2.410	-3.266	1.00	0.00
ATOM 995	HB	VAL A	66	-8.009	1.469	-1.057	1.00	0.00
ATOM 996	1HG1	VAL A	66	-10.002	3.269	-0.874	1.00	0.00
ATOM 997	2HG1	VAL A	66	-9.900	1.817	0.121	1.00	0.00
ATOM 998	3HG1	VAL A	66	-10.921	1.830	-1.316	1.00	0.00
ATOM 999	1HG2	VAL A	66	-10.265	0.384	-2.610	1.00	0.00

ATOM 1000	2HG2	VAL	A	66	-8.865	-0.433	-1.915	1.00	0.00
ATOM 1001	3HG2	VAL	A	66	-8.712	0.431	-3.446	1.00	0.00
ATOM 1002	N	LEU	A	67	-9.196	3.060	-4.964	1.00	0.00
ATOM 1003	CA	LEU	A	67	-10.189	3.352	-5.990	1.00	0.00
ATOM 1004	C	LEU	A	67	-11.155	2.185	-6.159	1.00	0.00
ATOM 1005	O	LEU	A	67	-12.366	2.339	-5.995	1.00	0.00
ATOM 1006	CB	LEU	A	67	-9.502	3.656	-7.322	1.00	0.00
ATOM 1007	CG	LEU	A	67	-8.340	4.649	-7.240	1.00	0.00
ATOM 1008	CD1	LEU	A	67	-7.659	4.785	-8.593	1.00	0.00
ATOM 1009	CD2	LEU	A	67	-8.831	6.003	-6.749	1.00	0.00
ATOM 1010	H	LEU	A	67	-8.287	2.810	-5.234	1.00	0.00
ATOM 1011	HA	LEU	A	67	-10.744	4.222	-5.675	1.00	0.00
ATOM 1012	1HB	LEU	A	67	-9.127	2.729	-7.730	1.00	0.00
ATOM 1013	2HB	LEU	A	67	-10.240	4.057	-8.001	1.00	0.00
ATOM 1014	HG	LEU	A	67	-7.610	4.281	-6.533	1.00	0.00
ATOM 1015	1HD1	LEU	A	67	-7.851	3.901	-9.183	1.00	0.00
ATOM 1016	2HD1	LEU	A	67	-6.595	4.899	-8.449	1.00	0.00
ATOM 1017	3HD1	LEU	A	67	-8.047	5.652	-9.106	1.00	0.00
ATOM 1018	1HD2	LEU	A	67	-8.083	6.446	-6.108	1.00	0.00
ATOM 1019	2HD2	LEU	A	67	-9.749	5.874	-6.196	1.00	0.00
ATOM 1020	3HD2	LEU	A	67	-9.008	6.650	-7.597	1.00	0.00
ATOM 1021	N	ALA	A	68	-10.613	1.017	-6.488	1.00	0.00
ATOM 1022	CA	ALA	A	68	-11.428	-0.177	-6.679	1.00	0.00
ATOM 1023	C	ALA	A	68	-10.558	-1.422	-6.813	1.00	0.00
ATOM 1024	O	ALA	A	68	-9.332	-1.345	-6.746	1.00	0.00
ATOM 1025	CB	ALA	A	68	-12.317	-0.017	-7.904	1.00	0.00
ATOM 1026	H	ALA	A	68	-9.641	0.956	-6.605	1.00	0.00

ATOM 1027	HA	ALA	A	68	-12.065	-0.287	-5.813	1.00	0.00
ATOM 1028	1HB	ALA	A	68	-13.286	-0.452	-7.704	1.00	0.00
ATOM 1029	2HB	ALA	A	68	-11.864	-0.519	-8.744	1.00	0.00
ATOM 1030	3HB	ALA	A	68	-12.433	1.032	-8.129	1.00	0.00
ATOM 1031	N	PHE	A	69	-11.202	-2.569	-7.002	1.00	0.00
ATOM 1032	CA	PHE	A	69	-10.488	-3.833	-7.146	1.00	0.00
ATOM 1033	C	PHE	A	69	-10.541	-4.327	-8.587	1.00	0.00
ATOM 1034	O	PHE	A	69	-11.186	-3.716	-9.440	1.00	0.00
ATOM 1035	CB	PHE	A	69	-11.083	-4.887	-6.210	1.00	0.00
ATOM 1036	CG	PHE	A	69	-10.857	-4.596	-4.754	1.00	0.00
ATOM 1037	CD1	PHE	A	69	-11.927	-4.484	-3.882	1.00	0.00
ATOM 1038	CD2	PHE	A	69	-9.573	-4.434	-4.258	1.00	0.00
ATOM 1039	CE1	PHE	A	69	-11.723	-4.217	-2.542	1.00	0.00
ATOM 1040	CE2	PHE	A	69	-9.362	-4.166	-2.918	1.00	0.00
ATOM 1041	CZ	PHE	A	69	-10.437	-4.057	-2.059	1.00	0.00
ATOM 1042	H	PHE	A	69	-12.182	-2.566	-7.047	1.00	0.00
ATOM 1043	HA	PHE	A	69	-9.457	-3.663	-6.873	1.00	0.00
ATOM 1044	1HB	PHE	A	69	-12.149	-4.943	-6.375	1.00	0.00
ATOM 1045	2HB	PHE	A	69	-10.639	-5.846	-6.432	1.00	0.00
ATOM 1046	HD1	PHE	A	69	-12.932	-4.609	-4.257	1.00	0.00
ATOM 1047	HD2	PHE	A	69	-8.731	-4.518	-4.929	1.00	0.00
ATOM 1048	HE1	PHE	A	69	-12.566	-4.132	-1.872	1.00	0.00
ATOM 1049	HE2	PHE	A	69	-8.357	-4.041	-2.544	1.00	0.00
ATOM 1050	HZ	PHE	A	69	-10.275	-3.848	-1.012	1.00	0.00
ATOM 1051	N	ARG	A	70	-9.857	-5.435	-8.854	1.00	0.00
ATOM 1052	CA	ARG	A	70	-9.826	-6.012	-10.194	1.00	0.00
ATOM 1053	C	ARG	A	70	-9.719	-7.532	-10.128	1.00	0.00



ATOM	1054	O	ARG	A	70	-9.227	-8.088	-9.146	1.00	0.00
ATOM	1055	CB	ARG	A	70	-8.651	-5.441	-10.990	1.00	0.00
ATOM	1056	CG	ARG	A	70	-8.714	-3.933	-11.174	1.00	0.00
ATOM	1057	CD	ARG	A	70	-9.865	-3.526	-12.079	1.00	0.00
ATOM	1058	NE	ARG	A	70	-9.527	-3.665	-13.495	1.00	0.00
ATOM	1059	CZ	ARG	A	70	-9.724	-4.775	-14.205	1.00	0.00
ATOM	1060	NH1	ARG	A	70	-10.247	-5.856	-13.638	1.00	0.00
ATOM	1061	NH2	ARG	A	70	-9.392	-4.807	-15.488	1.00	0.00
ATOM	1062	H	ARG	A	70	-9.363	-5.877	-8.132	1.00	0.00
ATOM	1063	HA	ARG	A	70	-10.748	-5.749	-10.690	1.00	0.00
ATOM	1064	1HB	ARG	A	70	-7.732	-5.682	-10.475	1.00	0.00
ATOM	1065	2HB	ARG	A	70	-8.635	-5.901	-11.967	1.00	0.00
ATOM	1066	1HG	ARG	A	70	-8.847	-3.468	-10.209	1.00	0.00
ATOM	1067	2HG	ARG	A	70	-7.785	-3.596	-11.612	1.00	0.00
ATOM	1068	1HD	ARG	A	70	-10.720	-4.147	-11.858	1.00	0.00
ATOM	1069	2HD	ARG	A	70	-10.113	-2.494	-11.879	1.00	0.00
ATOM	1070	HE	ARG	A	70	-9.134	-2.887	-13.943	1.00	0.00
ATOM	1071	1HH1	ARG	A	70	-10.499	-5.845	-12.671	1.00	0.00
ATOM	1072	2HH1	ARG	A	70	-10.391	-6.684	-14.181	1.00	0.00
ATOM	1073	1HH2	ARG	A	70	-8.995	-3.997	-15.922	1.00	0.00
ATOM	1074	2HH2	ARG	A	70	-9.538	-5.639	-16.023	1.00	0.00
ATOM	1075	N	SER	A	71	-10.183	-8.199	-11.180	1.00	0.00
ATOM	1076	CA	SER	A	71	-10.139	-9.655	-11.242	1.00	0.00
ATOM	1077	C	SER	A	71	-8.855	-10.132	-11.915	1.00	0.00
ATOM	1078	O	SER	A	71	-8.028	-9.325	-12.338	1.00	0.00
ATOM	1079	CB	SER	A	71	-11.354	-10.193	-11.998	1.00	0.00
ATOM	1080	OG	SER	A	71	-11.400	-11.608	-11.951	1.00	0.00

ATOM 1081	H	SER A	71	-10.564	-7.701	-11.933	1.00	0.00
ATOM 1082	HA	SER A	71	-10.161	-10.031	-10.229	1.00	0.00
ATOM 1083	1HB	SER A	71	-12.256	-9.802	-11.550	1.00	0.00
ATOM 1084	2HB	SER A	71	-11.301	-9.881	-13.030	1.00	0.00
ATOM 1085	HG	SER A	71	-12.315	-11.899	-11.930	1.00	0.00
ATOM 1086	N	VAL A	72	-8.695	-11.448	-12.008	1.00	0.00
ATOM 1087	CA	VAL A	72	-7.513	-12.031	-12.629	1.00	0.00
ATOM 1088	C	VAL A	72	-7.855	-13.327	-13.357	1.00	0.00
ATOM 1089	O	VAL A	72	-8.558	-14.184	-12.821	1.00	0.00
ATOM 1090	CB	VAL A	72	-6.413	-12.316	-11.589	1.00	0.00
ATOM 1091	CG1	VAL A	72	-5.804	-11.017	-11.085	1.00	0.00
ATOM 1092	CG2	VAL A	72	-6.971	-13.135	-10.434	1.00	0.00
ATOM 1093	H	VAL A	72	-9.389	-12.041	-11.651	1.00	0.00
ATOM 1094	HA	VAL A	72	-7.127	-11.319	-13.345	1.00	0.00
ATOM 1095	HB	VAL A	72	-5.634	-12.892	-12.066	1.00	0.00
ATOM 1096	1HG1	VAL A	72	-5.144	-10.612	-11.839	1.00	0.00
ATOM 1097	2HG1	VAL A	72	-5.242	-11.208	-10.182	1.00	0.00
ATOM 1098	3HG1	VAL A	72	-6.590	-10.307	-10.876	1.00	0.00
ATOM 1099	1HG2	VAL A	72	-6.238	-13.864	-10.123	1.00	0.00
ATOM 1100	2HG2	VAL A	72	-7.870	-13.640	-10.752	1.00	0.00
ATOM 1101	3HG2	VAL A	72	-7.201	-12.479	-9.607	1.00	0.00
ATOM 1102	N	SER A	73	-7.354	-13.463	-14.579	1.00	0.00
ATOM 1103	CA	SER A	73	-7.608	-14.655	-15.381	1.00	0.00
ATOM 1104	C	SER A	73	-7.030	-15.896	-14.708	1.00	0.00
ATOM 1105	O	SER A	73	-7.767	-16.723	-14.171	1.00	0.00
ATOM 1106	CB	SER A	73	-7.008	-14.492	-16.779	1.00	0.00
ATOM 1107	OG	SER A	73	-5.667	-14.037	-16.709	1.00	0.00

ATOM	1108	H	SER	A	73	-6.801	-12.746	-14.953	1.00	0.00
ATOM	1109	HA	SER	A	73	-8.677	-14.773	-15.470	1.00	0.00
ATOM	1110	1HB	SER	A	73	-7.025	-15.444	-17.289	1.00	0.00
ATOM	1111	2HB	SER	A	73	-7.590	-13.775	-17.337	1.00	0.00
ATOM	1112	N	ASN	A	74	-5.707	-16.018	-14.739	1.00	0.00
ATOM	1113	CA	ASN	A	74	-5.030	-17.158	-14.131	1.00	0.00
ATOM	1114	C	ASN	A	74	-5.336	-17.238	-12.639	1.00	0.00
ATOM	1115	O	ASN	A	74	-4.965	-16.350	-11.871	1.00	0.00
ATOM	1116	CB	ASN	A	74	-3.519	-17.057	-14.348	1.00	0.00
ATOM	1117	CG	ASN	A	74	-3.143	-17.098	-15.817	1.00	0.00
ATOM	1118	OD1	ASN	A	74	-4.003	-17.222	-16.687	1.00	0.00
ATOM	1119	ND2	ASN	A	74	-1.849	-16.994	-16.098	1.00	0.00
ATOM	1120	H	ASN	A	74	-5.173	-15.325	-15.181	1.00	0.00
ATOM	1121	HA	ASN	A	74	-5.395	-18.054	-14.610	1.00	0.00
ATOM	1122	1HB	ASN	A	74	-3.163	-16.127	-13.931	1.00	0.00
ATOM	1123	2HB	ASN	A	74	-3.033	-17.881	-13.847	1.00	0.00
ATOM	1124	1HD2	ASN	A	74	-1.219	-16.897	-15.353	1.00	0.00
ATOM	1125	2HD2	ASN	A	74	-1.577	-17.017	-17.040	1.00	0.00
ATOM	1126	N	ASN	A	75	-6.015	-18.307	-12.236	1.00	0.00
ATOM	1127	CA	ASN	A	75	-6.373	-18.502	-10.835	1.00	0.00
ATOM	1128	C	ASN	A	75	-7.306	-17.395	-10.355	1.00	0.00
ATOM	1129	O	ASN	A	75	-6.958	-16.216	-10.394	1.00	0.00
ATOM	1130	CB	ASN	A	75	-5.115	-18.543	-9.964	1.00	0.00
ATOM	1131	CG	ASN	A	75	-5.127	-19.699	-8.984	1.00	0.00
ATOM	1132	OD1	ASN	A	75	-4.634	-20.787	-9.284	1.00	0.00
ATOM	1133	ND2	ASN	A	75	-5.693	-19.471	-7.804	1.00	0.00
ATOM	1134	H	ASN	A	75	-6.283	-18.980	-12.895	1.00	0.00

ATOM	1135	HA	ASN	A	75	-6.887	-19.449	-10.753	1.00	0.00
ATOM	1136	1HB	ASN	A	75	-4.248	-18.645	-10.600	1.00	0.00
ATOM	1137	2HB	ASN	A	75	-5.040	-17.622	-9.405	1.00	0.00
ATOM	1138	1HD2	ASN	A	75	-6.066	-18.580	-7.635	1.00	0.00
ATOM	1139	2HD2	ASN	A	75	-5.715	-20.201	-7.152	1.00	0.00
ATOM	1140	N	ASN	A	76	-8.495	-17.783	-9.904	1.00	0.00
ATOM	1141	CA	ASN	A	76	-9.478	-16.821	-9.419	1.00	0.00
ATOM	1142	C	ASN	A	76	-9.436	-16.713	-7.897	1.00	0.00
ATOM	1143	O	ASN	A	76	-10.448	-16.424	-7.259	1.00	0.00
ATOM	1144	CB	ASN	A	76	-10.881	-17.222	-9.875	1.00	0.00
ATOM	1145	CG	ASN	A	76	-11.235	-16.647	-11.233	1.00	0.00
ATOM	1146	OD1	ASN	A	76	-11.641	-17.373	-12.140	1.00	0.00
ATOM	1147	ND2	ASN	A	76	-11.081	-15.336	-11.379	1.00	0.00
ATOM	1148	H	ASN	A	76	-8.717	-18.737	-9.898	1.00	0.00
ATOM	1149	HA	ASN	A	76	-9.234	-15.857	-9.842	1.00	0.00
ATOM	1150	1HB	ASN	A	76	-10.940	-18.299	-9.935	1.00	0.00
ATOM	1151	2HB	ASN	A	76	-11.603	-16.866	-9.154	1.00	0.00
ATOM	1152	1HD2	ASN	A	76	-10.754	-14.820	-10.612	1.00	0.00
ATOM	1153	2HD2	ASN	A	76	-11.301	-14.938	-12.247	1.00	0.00
ATOM	1154	N	ASN	A	77	-8.261	-16.947	-7.323	1.00	0.00
ATOM	1155	CA	ASN	A	77	-8.090	-16.873	-5.876	1.00	0.00
ATOM	1156	C	ASN	A	77	-7.331	-15.609	-5.476	1.00	0.00
ATOM	1157	O	ASN	A	77	-6.818	-15.512	-4.361	1.00	0.00
ATOM	1158	CB	ASN	A	77	-7.350	-18.110	-5.366	1.00	0.00
ATOM	1159	CG	ASN	A	77	-7.543	-18.326	-3.877	1.00	0.00
ATOM	1160	OD1	ASN	A	77	-6.592	-18.251	-3.099	1.00	0.00
ATOM	1161	ND2	ASN	A	77	-8.778	-18.597	-3.473	1.00	0.00

ATOM	1162	H	ASN	A	77	-7.489	-17.172	-7.884	1.00	0.00
ATOM	1163	HA	ASN	A	77	-9.073	-16.843	-5.430	1.00	0.00
ATOM	1164	1HB	ASN	A	77	-7.716	-18.982	-5.887	1.00	0.00
ATOM	1165	2HB	ASN	A	77	-6.294	-17.996	-5.561	1.00	0.00
ATOM	1166	1HD2	ASN	A	77	-9.486	-18.642	-4.149	1.00	0.00
ATOM	1167	2HD2	ASN	A	77	-8.931	-18.742	-2.516	1.00	0.00
ATOM	1168	N	HIS	A	78	-7.262	-14.643	-6.389	1.00	0.00
ATOM	1169	CA	HIS	A	78	-6.567	-13.389	-6.125	1.00	0.00
ATOM	1170	C	HIS	A	78	-7.465	-12.196	-6.433	1.00	0.00
ATOM	1171	O	HIS	A	78	-8.613	-12.361	-6.843	1.00	0.00
ATOM	1172	CB	HIS	A	78	-5.286	-13.306	-6.959	1.00	0.00
ATOM	1173	CG	HIS	A	78	-4.381	-14.487	-6.791	1.00	0.00
ATOM	1174	ND1	HIS	A	78	-3.557	-14.953	-7.794	1.00	0.00
ATOM	1175	CD2	HIS	A	78	-4.170	-15.299	-5.727	1.00	0.00
ATOM	1176	CE1	HIS	A	78	-2.880	-15.999	-7.355	1.00	0.00
ATOM	1177	NE2	HIS	A	78	-3.234	-16.229	-6.104	1.00	0.00
ATOM	1178	H	HIS	A	78	-7.691	-14.776	-7.259	1.00	0.00
ATOM	1179	HA	HIS	A	78	-6.305	-13.368	-5.077	1.00	0.00
ATOM	1180	1HB	HIS	A	78	-5.550	-13.238	-8.004	1.00	0.00
ATOM	1181	2HB	HIS	A	78	-4.736	-12.421	-6.675	1.00	0.00
ATOM	1182	HD1	HIS	A	78	-3.479	-14.574	-8.694	1.00	0.00
ATOM	1183	HD2	HIS	A	78	-4.650	-15.227	-4.761	1.00	0.00
ATOM	1184	HE1	HIS	A	78	-2.158	-16.569	-7.921	1.00	0.00
ATOM	1185	HE2	HIS	A	78	-2.822	-16.894	-5.514	1.00	0.00
ATOM	1186	N	THR	A	79	-6.934	-10.994	-6.233	1.00	0.00
ATOM	1187	CA	THR	A	79	-7.690	-9.773	-6.491	1.00	0.00
ATOM	1188	C	THR	A	79	-6.756	-8.582	-6.678	1.00	0.00

ATOM	1189	O	THR	A	79	-5.905	-8.308	-5.831	1.00	0.00
ATOM	1190	CB	THR	A	79	-8.663	-9.497	-5.343	1.00	0.00
ATOM	1191	OG1	THR	A	79	-9.521	-10.605	-5.137	1.00	0.00
ATOM	1192	CG2	THR	A	79	-9.531	-8.280	-5.573	1.00	0.00
ATOM	1193	H	THR	A	79	-6.014	-10.925	-5.905	1.00	0.00
ATOM	1194	HA	THR	A	79	-8.254	-9.918	-7.400	1.00	0.00
ATOM	1195	HB	THR	A	79	-8.096	-9.334	-4.437	1.00	0.00
ATOM	1196	HG1	THR	A	79	-10.061	-10.742	-5.919	1.00	0.00
ATOM	1197	1HG2	THR	A	79	-9.038	-7.405	-5.176	1.00	0.00
ATOM	1198	2HG2	THR	A	79	-10.480	-8.416	-5.076	1.00	0.00
ATOM	1199	3HG2	THR	A	79	-9.695	-8.151	-6.633	1.00	0.00
ATOM	1200	N	GLY	A	80	-6.920	-7.877	-7.792	1.00	0.00
ATOM	1201	CA	GLY	A	80	-6.084	-6.723	-8.071	1.00	0.00
ATOM	1202	C	GLY	A	80	-6.563	-5.474	-7.357	1.00	0.00
ATOM	1203	O	GLY	A	80	-7.755	-5.168	-7.360	1.00	0.00
ATOM	1204	H	GLY	A	80	-7.614	-8.142	-8.432	1.00	0.00
ATOM	1205	1HA	GLY	A	80	-5.074	-6.939	-7.757	1.00	0.00
ATOM	1206	2HA	GLY	A	80	-6.088	-6.539	-9.135	1.00	0.00
ATOM	1207	N	VAL	A	81	-5.632	-4.753	-6.742	1.00	0.00
ATOM	1208	CA	VAL	A	81	-5.966	-3.531	-6.020	1.00	0.00
ATOM	1209	C	VAL	A	81	-5.607	-2.293	-6.834	1.00	0.00
ATOM	1210	O	VAL	A	81	-4.550	-2.235	-7.463	1.00	0.00
ATOM	1211	CB	VAL	A	81	-5.241	-3.466	-4.662	1.00	0.00
ATOM	1212	CG1	VAL	A	81	-5.685	-2.242	-3.873	1.00	0.00
ATOM	1213	CG2	VAL	A	81	-5.483	-4.739	-3.865	1.00	0.00
ATOM	1214	H	VAL	A	81	-4.698	-5.049	-6.774	1.00	0.00
ATOM	1215	HA	VAL	A	81	-7.031	-3.533	-5.835	1.00	0.00

ATOM	1216	HB	VAL	A	81	-4.180	-3.381	-4.847	1.00	0.00
ATOM	1217	1HG1	VAL	A	81	-5.541	-2.423	-2.817	1.00	0.00
ATOM	1218	2HG1	VAL	A	81	-6.730	-2.049	-4.066	1.00	0.00
ATOM	1219	3HG1	VAL	A	81	-5.099	-1.387	-4.175	1.00	0.00
ATOM	1220	1HG2	VAL	A	81	-5.014	-5.572	-4.366	1.00	0.00
ATOM	1221	2HG2	VAL	A	81	-6.546	-4.917	-3.787	1.00	0.00
ATOM	1222	3HG2	VAL	A	81	-5.064	-4.630	-2.876	1.00	0.00
ATOM	1223	N	ASP	A	82	-6.493	-1.302	-6.814	1.00	0.00
ATOM	1224	CA	ASP	A	82	-6.272	-0.059	-7.544	1.00	0.00
ATOM	1225	C	ASP	A	82	-6.319	1.134	-6.595	1.00	0.00
ATOM	1226	O	ASP	A	82	-7.308	1.866	-6.550	1.00	0.00
ATOM	1227	CB	ASP	A	82	-7.319	0.103	-8.649	1.00	0.00
ATOM	1228	CG	ASP	A	82	-6.745	-0.146	-10.029	1.00	0.00
ATOM	1229	OD1	ASP	A	82	-6.364	0.837	-10.700	1.00	0.00
ATOM	1230	OD2	ASP	A	82	-6.675	-1.323	-10.440	1.00	0.00
ATOM	1231	H	ASP	A	82	-7.315	-1.408	-6.290	1.00	0.00
ATOM	1232	HA	ASP	A	82	-5.292	-0.109	-7.993	1.00	0.00
ATOM	1233	1HB	ASP	A	82	-8.122	-0.600	-8.482	1.00	0.00
ATOM	1234	2HB	ASP	A	82	-7.715	1.108	-8.619	1.00	0.00
ATOM	1235	N	SER	A	83	-5.245	1.319	-5.835	1.00	0.00
ATOM	1236	CA	SER	A	83	-5.162	2.420	-4.882	1.00	0.00
ATOM	1237	C	SER	A	83	-4.346	3.576	-5.450	1.00	0.00
ATOM	1238	O	SER	A	83	-3.889	3.524	-6.592	1.00	0.00
ATOM	1239	CB	SER	A	83	-4.544	1.936	-3.569	1.00	0.00
ATOM	1240	OG	SER	A	83	-3.634	0.873	-3.796	1.00	0.00
ATOM	1241	H	SER	A	83	-4.490	0.698	-5.914	1.00	0.00
ATOM	1242	HA	SER	A	83	-6.167	2.765	-4.689	1.00	0.00

ATOM	1243	1HB	SER	A	83	-4.014	2.751	-3.101	1.00	0.00
ATOM	1244	2HB	SER	A	83	-5.326	1.590	-2.910	1.00	0.00
ATOM	1245	HG	SER	A	83	-3.972	0.070	-3.389	1.00	0.00
ATOM	1246	N	LEU	A	84	-4.169	4.618	-4.645	1.00	0.00
ATOM	1247	CA	LEU	A	84	-3.410	5.790	-5.066	1.00	0.00
ATOM	1248	C	LEU	A	84	-2.463	6.252	-3.964	1.00	0.00
ATOM	1249	O	LEU	A	84	-2.897	6.607	-2.868	1.00	0.00
ATOM	1250	CB	LEU	A	84	-4.364	6.927	-5.446	1.00	0.00
ATOM	1251	CG	LEU	A	84	-3.711	8.131	-6.133	1.00	0.00
ATOM	1252	CD1	LEU	A	84	-2.896	8.942	-5.135	1.00	0.00
ATOM	1253	CD2	LEU	A	84	-2.839	7.675	-7.293	1.00	0.00
ATOM	1254	H	LEU	A	84	-4.560	4.601	-3.746	1.00	0.00
ATOM	1255	HA	LEU	A	84	-2.829	5.515	-5.933	1.00	0.00
ATOM	1256	1HB	LEU	A	84	-5.118	6.528	-6.108	1.00	0.00
ATOM	1257	2HB	LEU	A	84	-4.849	7.276	-4.546	1.00	0.00
ATOM	1258	HG	LEU	A	84	-4.485	8.772	-6.528	1.00	0.00
ATOM	1259	1HD1	LEU	A	84	-3.159	8.647	-4.130	1.00	0.00
ATOM	1260	2HD1	LEU	A	84	-3.107	9.993	-5.268	1.00	0.00
ATOM	1261	3HD1	LEU	A	84	-1.844	8.763	-5.299	1.00	0.00
ATOM	1262	1HD2	LEU	A	84	-3.439	7.114	-7.995	1.00	0.00
ATOM	1263	2HD2	LEU	A	84	-2.042	7.049	-6.920	1.00	0.00
ATOM	1264	3HD2	LEU	A	84	-2.418	8.538	-7.788	1.00	0.00
ATOM	1265	N	CYS	A	85	-1.167	6.249	-4.262	1.00	0.00
ATOM	1266	CA	CYS	A	85	-0.161	6.673	-3.296	1.00	0.00
ATOM	1267	C	CYS	A	85	-0.187	8.189	-3.125	1.00	0.00
ATOM	1268	O	CYS	A	85	0.593	8.909	-3.748	1.00	0.00
ATOM	1269	CB	CYS	A	85	1.231	6.220	-3.745	1.00	0.00



ATOM	1270	SG	CYS	A	85	1.497	4.435	-3.632	1.00	0.00
ATOM	1271	H	CYS	A	85	-0.883	5.959	-5.153	1.00	0.00
ATOM	1272	HA	CYS	A	85	-0.394	6.210	-2.349	1.00	0.00
ATOM	1273	1HB	CYS	A	85	1.379	6.508	-4.775	1.00	0.00
ATOM	1274	2HB	CYS	A	85	1.975	6.703	-3.129	1.00	0.00
ATOM	1275	HG	CYS	A	85	2.275	4.218	-4.151	1.00	0.00
ATOM	1276	N	ASN	A	86	-1.096	8.668	-2.280	1.00	0.00
ATOM	1277	CA	ASN	A	86	-1.232	10.099	-2.030	1.00	0.00
ATOM	1278	C	ASN	A	86	-0.042	10.640	-1.241	1.00	0.00
ATOM	1279	O	ASN	A	86	0.446	9.995	-0.313	1.00	0.00
ATOM	1280	CB	ASN	A	86	-2.534	10.382	-1.275	1.00	0.00
ATOM	1281	CG	ASN	A	86	-3.488	11.249	-2.074	1.00	0.00
ATOM	1282	OD1	ASN	A	86	-3.411	12.477	-2.033	1.00	0.00
ATOM	1283	ND2	ASN	A	86	-4.395	10.613	-2.806	1.00	0.00
ATOM	1284	H	ASN	A	86	-1.691	8.044	-1.815	1.00	0.00
ATOM	1285	HA	ASN	A	86	-1.267	10.598	-2.987	1.00	0.00
ATOM	1286	1HB	ASN	A	86	-3.026	9.447	-1.057	1.00	0.00
ATOM	1287	2HB	ASN	A	86	-2.305	10.888	-0.349	1.00	0.00
ATOM	1288	1HD2	ASN	A	86	-4.398	9.633	-2.790	1.00	0.00
ATOM	1289	2HD2	ASN	A	86	-5.025	11.149	-3.332	1.00	0.00
ATOM	1290	N	PHE	A	87	0.414	11.830	-1.617	1.00	0.00
ATOM	1291	CA	PHE	A	87	1.542	12.467	-0.946	1.00	0.00
ATOM	1292	C	PHE	A	87	1.211	13.909	-0.575	1.00	0.00
ATOM	1293	O	PHE	A	87	0.093	14.375	-0.793	1.00	0.00
ATOM	1294	CB	PHE	A	87	2.783	12.433	-1.841	1.00	0.00
ATOM	1295	CG	PHE	A	87	3.634	11.212	-1.643	1.00	0.00
ATOM	1296	CD1	PHE	A	87	4.944	11.330	-1.207	1.00	0.00

ATOM 1297	CD2	PHE A	87	3.126	9.947	-1.891	1.00	0.00
ATOM 1298	CE1	PHE A	87	5.731	10.210	-1.023	1.00	0.00
ATOM 1299	CE2	PHE A	87	3.908	8.823	-1.708	1.00	0.00
ATOM 1300	CZ	PHE A	87	5.213	8.955	-1.274	1.00	0.00
ATOM 1301	H	PHE A	87	-0.022	12.295	-2.362	1.00	0.00
ATOM 1302	HA	PHE A	87	1.745	11.913	-0.042	1.00	0.00
ATOM 1303	1HB	PHE A	87	2.472	12.456	-2.874	1.00	0.00
ATOM 1304	2HB	PHE A	87	3.392	13.301	-1.632	1.00	0.00
ATOM 1305	HD1	PHE A	87	5.349	12.311	-1.010	1.00	0.00
ATOM 1306	HD2	PHE A	87	2.105	9.843	-2.231	1.00	0.00
ATOM 1307	HE1	PHE A	87	6.751	10.316	-0.684	1.00	0.00
ATOM 1308	HE2	PHE A	87	3.501	7.843	-1.905	1.00	0.00
ATOM 1309	HZ	PHE A	87	5.826	8.078	-1.131	1.00	0.00
ATOM 1310	N	SER A	88	2.191	14.610	-0.014	1.00	0.00
ATOM 1311	CA	SER A	88	2.004	16.000	0.386	1.00	0.00
ATOM 1312	C	SER A	88	2.428	16.950	-0.734	1.00	0.00
ATOM 1313	O	SER A	88	3.087	16.539	-1.689	1.00	0.00
ATOM 1314	CB	SER A	88	2.802	16.300	1.657	1.00	0.00
ATOM 1315	OG	SER A	88	1.967	16.279	2.801	1.00	0.00
ATOM 1316	H	SER A	88	3.060	14.184	0.134	1.00	0.00
ATOM 1317	HA	SER A	88	0.953	16.148	0.588	1.00	0.00
ATOM 1318	1HB	SER A	88	3.575	15.555	1.778	1.00	0.00
ATOM 1319	2HB	SER A	88	3.255	17.278	1.574	1.00	0.00
ATOM 1320	HG	SER A	88	2.325	16.866	3.470	1.00	0.00
ATOM 1321	N	PRO A	89	2.052	18.236	-0.631	1.00	0.00
ATOM 1322	CA	PRO A	89	2.397	19.242	-1.640	1.00	0.00
ATOM 1323	C	PRO A	89	3.880	19.599	-1.621	1.00	0.00

ATOM 1324	O	PRO A	89	4.472	19.889	-2.660	1.00	0.00
ATOM 1325	CB	PRO A	89	1.550	20.451	-1.238	1.00	0.00
ATOM 1326	CG	PRO A	89	1.334	20.291	0.227	1.00	0.00
ATOM 1327	CD	PRO A	89	1.263	18.809	0.476	1.00	0.00
ATOM 1328	HA	PRO A	89	2.120	18.917	-2.632	1.00	0.00
ATOM 1329	1HB	PRO A	89	2.088	21.361	-1.463	1.00	0.00
ATOM 1330	2HB	PRO A	89	0.616	20.436	-1.779	1.00	0.00
ATOM 1331	1HG	PRO A	89	2.162	20.723	0.769	1.00	0.00
ATOM 1332	2HG	PRO A	89	0.407	20.764	0.515	1.00	0.00
ATOM 1333	1HD	PRO A	89	1.705	18.566	1.431	1.00	0.00
ATOM 1334	2HD	PRO A	89	0.239	18.468	0.435	1.00	0.00
ATOM 1335	N	LEU A	90	4.473	19.576	-0.432	1.00	0.00
ATOM 1336	CA	LEU A	90	5.888	19.899	-0.278	1.00	0.00
ATOM 1337	C	LEU A	90	6.756	18.947	-1.095	1.00	0.00
ATOM 1338	O	LEU A	90	7.824	19.322	-1.574	1.00	0.00
ATOM 1339	CB	LEU A	90	6.290	19.834	1.197	1.00	0.00
ATOM 1340	CG	LEU A	90	5.970	21.089	2.011	1.00	0.00
ATOM 1341	CD1	LEU A	90	4.536	21.048	2.513	1.00	0.00
ATOM 1342	CD2	LEU A	90	6.940	21.232	3.174	1.00	0.00
ATOM 1343	H	LEU A	90	3.948	19.338	0.361	1.00	0.00
ATOM 1344	HA	LEU A	90	6.039	20.904	-0.639	1.00	0.00
ATOM 1345	1HB	LEU A	90	5.780	18.996	1.651	1.00	0.00
ATOM 1346	2HB	LEU A	90	7.354	19.659	1.252	1.00	0.00
ATOM 1347	HG	LEU A	90	6.076	21.958	1.377	1.00	0.00
ATOM 1348	1HD1	LEU A	90	4.295	20.045	2.834	1.00	0.00
ATOM 1349	2HD1	LEU A	90	3.867	21.341	1.719	1.00	0.00
ATOM 1350	3HD1	LEU A	90	4.426	21.727	3.346	1.00	0.00

ATOM	1351	1HD2	LEU	A	90	6.637	20.577	3.978	1.00	0.00
ATOM	1352	2HD2	LEU	A	90	6.937	22.254	3.522	1.00	0.00
ATOM	1353	3HD2	LEU	A	90	7.935	20.965	2.849	1.00	0.00
ATOM	1354	N	ALA	A	91	6.287	17.713	-1.249	1.00	0.00
ATOM	1355	CA	ALA	A	91	7.020	16.707	-2.009	1.00	0.00
ATOM	1356	C	ALA	A	91	7.226	17.151	-3.453	1.00	0.00
ATOM	1357	O	ALA	A	91	6.586	18.093	-3.920	1.00	0.00
ATOM	1358	CB	ALA	A	91	6.288	15.374	-1.964	1.00	0.00
ATOM	1359	H	ALA	A	91	5.428	17.472	-0.843	1.00	0.00
ATOM	1360	HA	ALA	A	91	7.987	16.576	-1.542	1.00	0.00
ATOM	1361	1HB	ALA	A	91	5.410	15.425	-2.590	1.00	0.00
ATOM	1362	2HB	ALA	A	91	5.994	15.159	-0.948	1.00	0.00
ATOM	1363	3HB	ALA	A	91	6.942	14.593	-2.323	1.00	0.00
ATOM	1364	N	ARG	A	92	8.121	16.465	-4.155	1.00	0.00
ATOM	1365	CA	ARG	A	92	8.411	16.787	-5.548	1.00	0.00
ATOM	1366	C	ARG	A	92	9.449	15.828	-6.122	1.00	0.00
ATOM	1367	O	ARG	A	92	9.354	15.414	-7.277	1.00	0.00
ATOM	1368	CB	ARG	A	92	8.907	18.230	-5.669	1.00	0.00
ATOM	1369	CG	ARG	A	92	8.268	18.997	-6.814	1.00	0.00
ATOM	1370	CD	ARG	A	92	8.399	20.499	-6.620	1.00	0.00
ATOM	1371	NE	ARG	A	92	7.223	21.072	-5.969	1.00	0.00
ATOM	1372	CZ	ARG	A	92	6.009	21.094	-6.515	1.00	0.00
ATOM	1373	NH1	ARG	A	92	5.807	20.578	-7.721	1.00	0.00
ATOM	1374	NH2	ARG	A	92	4.995	21.635	-5.855	1.00	0.00
ATOM	1375	H	ARG	A	92	8.598	15.724	-3.726	1.00	0.00
ATOM	1376	HA	ARG	A	92	7.495	16.684	-6.108	1.00	0.00
ATOM	1377	1HB	ARG	A	92	8.689	18.751	-4.748	1.00	0.00

ATOM	1378	2HB	ARG	A	92	9.976	18.221	-5.823	1.00	0.00
ATOM	1379	1HG	ARG	A	92	8.756	18.720	-7.737	1.00	0.00
ATOM	1380	2HG	ARG	A	92	7.221	18.739	-6.867	1.00	0.00
ATOM	1381	1HD	ARG	A	92	9.267	20.696	-6.010	1.00	0.00
ATOM	1382	2HD	ARG	A	92	8.525	20.965	-7.587	1.00	0.00
ATOM	1383	HE	ARG	A	92	7.343	21.460	-5.077	1.00	0.00
ATOM	1384	1HH1	ARG	A	92	6.568	20.169	-8.225	1.00	0.00
ATOM	1385	2HH1	ARG	A	92	4.893	20.598	-8.127	1.00	0.00
ATOM	1386	1HH2	ARG	A	92	5.141	22.026	-4.946	1.00	0.00
ATOM	1387	2HH2	ARG	A	92	4.083	21.653	-6.265	1.00	0.00
ATOM	1388	N	ARG	A	93	10.439	15.478	-5.306	1.00	0.00
ATOM	1389	CA	ARG	A	93	11.494	14.567	-5.734	1.00	0.00
ATOM	1390	C	ARG	A	93	11.161	13.129	-5.344	1.00	0.00
ATOM	1391	O	ARG	A	93	12.006	12.403	-4.820	1.00	0.00
ATOM	1392	CB	ARG	A	93	12.834	14.985	-5.122	1.00	0.00
ATOM	1393	CG	ARG	A	93	13.667	15.873	-6.032	1.00	0.00
ATOM	1394	CD	ARG	A	93	14.271	15.079	-7.180	1.00	0.00
ATOM	1395	NE	ARG	A	93	14.787	15.950	-8.234	1.00	0.00
ATOM	1396	CZ	ARG	A	93	14.017	16.685	-9.033	1.00	0.00
ATOM	1397	NH1	ARG	A	93	12.696	16.660	-8.900	1.00	0.00
ATOM	1398	NH2	ARG	A	93	14.568	17.449	-9.966	1.00	0.00
ATOM	1399	H	ARG	A	93	10.460	15.841	-4.397	1.00	0.00
ATOM	1400	HA	ARG	A	93	11.567	14.627	-6.809	1.00	0.00
ATOM	1401	1HB	ARG	A	93	12.646	15.524	-4.204	1.00	0.00
ATOM	1402	2HB	ARG	A	93	13.408	14.098	-4.897	1.00	0.00
ATOM	1403	1HG	ARG	A	93	13.036	16.649	-6.436	1.00	0.00
ATOM	1404	2HG	ARG	A	93	14.464	16.317	-5.454	1.00	0.00

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ATOM	1405	1HD	ARG	A	93	15.080	14.475	-6.797	1.00	0.00
ATOM	1406	2HD	ARG	A	93	13.509	14.438	-7.597	1.00	0.00
ATOM	1407	HE	ARG	A	93	15.759	15.988	-8.353	1.00	0.00
ATOM	1408	1HH1	ARG	A	93	12.274	16.086	-8.197	1.00	0.00
ATOM	1409	2HH1	ARG	A	93	12.123	17.214	-9.502	1.00	0.00
ATOM	1410	1HH2	ARG	A	93	15.562	17.472	-10.069	1.00	0.00
ATOM	1411	2HH2	ARG	A	93	13.990	18.001	-10.565	1.00	0.00
ATOM	1412	N	VAL	A	94	9.922	12.723	-5.606	1.00	0.00
ATOM	1413	CA	VAL	A	94	9.476	11.373	-5.284	1.00	0.00
ATOM	1414	C	VAL	A	94	9.193	10.574	-6.552	1.00	0.00
ATOM	1415	O	VAL	A	94	8.369	10.970	-7.377	1.00	0.00
ATOM	1416	CB	VAL	A	94	8.209	11.392	-4.410	1.00	0.00
ATOM	1417	CG1	VAL	A	94	7.873	9.991	-3.924	1.00	0.00
ATOM	1418	CG2	VAL	A	94	8.384	12.344	-3.237	1.00	0.00
ATOM	1419	H	VAL	A	94	9.294	13.347	-6.026	1.00	0.00
ATOM	1420	HA	VAL	A	94	10.264	10.884	-4.730	1.00	0.00
ATOM	1421	HB	VAL	A	94	7.385	11.747	-5.014	1.00	0.00
ATOM	1422	1HG1	VAL	A	94	7.374	9.447	-4.713	1.00	0.00
ATOM	1423	2HG1	VAL	A	94	7.221	10.055	-3.065	1.00	0.00
ATOM	1424	3HG1	VAL	A	94	8.782	9.477	-3.650	1.00	0.00
ATOM	1425	1HG2	VAL	A	94	9.415	12.332	-2.915	1.00	0.00
ATOM	1426	2HG2	VAL	A	94	7.748	12.032	-2.422	1.00	0.00
ATOM	1427	3HG2	VAL	A	94	8.114	13.345	-3.541	1.00	0.00
ATOM	1428	N	ASP	A	95	9.882	9.447	-6.701	1.00	0.00
ATOM	1429	CA	ASP	A	95	9.704	8.592	-7.870	1.00	0.00
ATOM	1430	C	ASP	A	95	8.808	7.401	-7.543	1.00	0.00
ATOM	1431	O	ASP	A	95	8.628	7.049	-6.377	1.00	0.00

ATOM 1432	CB	ASP	A	95	11.060	8.101	-8.378	1.00	0.00
ATOM 1433	CG	ASP	A	95	11.727	9.099	-9.303	1.00	0.00
ATOM 1434	OD1	ASP	A	95	12.539	9.913	-8.812	1.00	0.00
ATOM 1435	OD2	ASP	A	95	11.439	9.068	-10.517	1.00	0.00
ATOM 1436	H	ASP	A	95	10.525	9.184	-6.010	1.00	0.00
ATOM 1437	HA	ASP	A	95	9.232	9.181	-8.642	1.00	0.00
ATOM 1438	1HB	ASP	A	95	11.712	7.927	-7.535	1.00	0.00
ATOM 1439	2HB	ASP	A	95	10.921	7.174	-8.917	1.00	0.00
ATOM 1440	N	ARG	A	96	8.248	6.787	-8.579	1.00	0.00
ATOM 1441	CA	ARG	A	96	7.371	5.636	-8.404	1.00	0.00
ATOM 1442	C	ARG	A	96	8.126	4.467	-7.778	1.00	0.00
ATOM 1443	O	ARG	A	96	7.552	3.666	-7.040	1.00	0.00
ATOM 1444	CB	ARG	A	96	6.775	5.212	-9.747	1.00	0.00
ATOM 1445	CG	ARG	A	96	7.799	5.129	-10.868	1.00	0.00
ATOM 1446	CD	ARG	A	96	7.460	4.021	-11.851	1.00	0.00
ATOM 1447	NE	ARG	A	96	8.656	3.367	-12.374	1.00	0.00
ATOM 1448	CZ	ARG	A	96	8.637	2.445	-13.335	1.00	0.00
ATOM 1449	NH1	ARG	A	96	7.488	2.068	-13.880	1.00	0.00
ATOM 1450	NH2	ARG	A	96	9.772	1.901	-13.754	1.00	0.00
ATOM 1451	H	ARG	A	96	8.429	7.116	-9.485	1.00	0.00
ATOM 1452	HA	ARG	A	96	6.570	5.927	-7.740	1.00	0.00
ATOM 1453	1HB	ARG	A	96	6.318	4.241	-9.635	1.00	0.00
ATOM 1454	2HB	ARG	A	96	6.017	5.926	-10.033	1.00	0.00
ATOM 1455	1HG	ARG	A	96	7.817	6.071	-11.396	1.00	0.00
ATOM 1456	2HG	ARG	A	96	8.771	4.934	-10.440	1.00	0.00
ATOM 1457	1HD	ARG	A	96	6.850	3.284	-11.347	1.00	0.00
ATOM 1458	2HD	ARG	A	96	6.903	4.444	-12.673	1.00	0.00

ATOM	1459	HE	ARG	A	96	9.520	3.627	-11.990	1.00	0.00
ATOM	1460	1HH1	ARG	A	96	6.628	2.475	-13.569	1.00	0.00
ATOM	1461	2HH1	ARG	A	96	7.480	1.376	-14.602	1.00	0.00
ATOM	1462	1HH2	ARG	A	96	10.641	2.182	-13.348	1.00	0.00
ATOM	1463	2HH2	ARG	A	96	9.758	1.209	-14.476	1.00	0.00
ATOM	1464	N	VAL	A	97	9.418	4.375	-8.079	1.00	0.00
ATOM	1465	CA	VAL	A	97	10.253	3.305	-7.547	1.00	0.00
ATOM	1466	C	VAL	A	97	10.404	3.423	-6.034	1.00	0.00
ATOM	1467	O	VAL	A	97	10.587	2.424	-5.339	1.00	0.00
ATOM	1468	CB	VAL	A	97	11.651	3.313	-8.193	1.00	0.00
ATOM	1469	CG1	VAL	A	97	12.437	2.077	-7.780	1.00	0.00
ATOM	1470	CG2	VAL	A	97	11.542	3.402	-9.707	1.00	0.00
ATOM	1471	H	VAL	A	97	9.819	5.045	-8.673	1.00	0.00
ATOM	1472	HA	VAL	A	97	9.777	2.364	-7.780	1.00	0.00
ATOM	1473	HB	VAL	A	97	12.184	4.183	-7.840	1.00	0.00
ATOM	1474	1HG1	VAL	A	97	13.066	1.760	-8.599	1.00	0.00
ATOM	1475	2HG1	VAL	A	97	11.750	1.282	-7.525	1.00	0.00
ATOM	1476	3HG1	VAL	A	97	13.051	2.310	-6.923	1.00	0.00
ATOM	1477	1HG2	VAL	A	97	12.340	2.833	-10.160	1.00	0.00
ATOM	1478	2HG2	VAL	A	97	11.616	4.435	-10.013	1.00	0.00
ATOM	1479	3HG2	VAL	A	97	10.590	3.001	-10.022	1.00	0.00
ATOM	1480	N	ALA	A	98	10.326	4.650	-5.529	1.00	0.00
ATOM	1481	CA	ALA	A	98	10.455	4.896	-4.098	1.00	0.00
ATOM	1482	C	ALA	A	98	9.372	4.162	-3.315	1.00	0.00
ATOM	1483	O	ALA	A	98	9.667	3.283	-2.504	1.00	0.00
ATOM	1484	CB	ALA	A	98	10.393	6.390	-3.813	1.00	0.00
ATOM	1485	H	ALA	A	98	10.179	5.409	-6.133	1.00	0.00



ATOM 1486	HA	ALA	A	98	11.422	4.534	-3.783	1.00	0.00
ATOM 1487	1HB	ALA	A	98	10.916	6.602	-2.892	1.00	0.00
ATOM 1488	2HB	ALA	A	98	9.361	6.695	-3.721	1.00	0.00
ATOM 1489	3HB	ALA	A	98	10.858	6.930	-4.624	1.00	0.00
ATOM 1490	N	ILE	A	99	8.118	4.526	-3.562	1.00	0.00
ATOM 1491	CA	ILE	A	99	6.991	3.900	-2.880	1.00	0.00
ATOM 1492	C	ILE	A	99	6.885	2.418	-3.236	1.00	0.00
ATOM 1493	O	ILE	A	99	6.252	1.643	-2.520	1.00	0.00
ATOM 1494	CB	ILE	A	99	5.663	4.600	-3.230	1.00	0.00
ATOM 1495	CG1	ILE	A	99	5.776	6.106	-2.986	1.00	0.00
ATOM 1496	CG2	ILE	A	99	4.520	4.012	-2.414	1.00	0.00
ATOM 1497	CD1	ILE	A	99	4.904	6.935	-3.905	1.00	0.00
ATOM 1498	H	ILE	A	99	7.947	5.232	-4.221	1.00	0.00
ATOM 1499	HA	ILE	A	99	7.154	3.992	-1.817	1.00	0.00
ATOM 1500	HB	ILE	A	99	5.452	4.427	-4.275	1.00	0.00
ATOM 1501	1HG1	ILE	A	99	5.483	6.322	-1.970	1.00	0.00
ATOM 1502	2HG1	ILE	A	99	6.800	6.413	-3.133	1.00	0.00
ATOM 1503	1HG2	ILE	A	99	3.769	4.769	-2.250	1.00	0.00
ATOM 1504	2HG2	ILE	A	99	4.899	3.668	-1.462	1.00	0.00
ATOM 1505	3HG2	ILE	A	99	4.086	3.182	-2.950	1.00	0.00
ATOM 1506	1HD1	ILE	A	99	5.097	7.983	-3.733	1.00	0.00
ATOM 1507	2HD1	ILE	A	99	3.865	6.722	-3.705	1.00	0.00
ATOM 1508	3HD1	ILE	A	99	5.131	6.690	-4.932	1.00	0.00
ATOM 1509	N	TYR	A	100	7.508	2.030	-4.346	1.00	0.00
ATOM 1510	CA	TYR	A	100	7.481	0.642	-4.793	1.00	0.00
ATOM 1511	C	TYR	A	100	8.529	-0.189	-4.060	1.00	0.00
ATOM 1512	O	TYR	A	100	8.247	-1.293	-3.596	1.00	0.00

ATOM	1513	CB	TYR A 100	7.725	0.569	-6.301	1.00	0.00
ATOM	1514	CG	TYR A 100	7.654	-0.833	-6.861	1.00	0.00
ATOM	1515	CD1	TYR A 100	8.777	-1.442	-7.405	1.00	0.00
ATOM	1516	CD2	TYR A 100	6.463	-1.549	-6.845	1.00	0.00
ATOM	1517	CE1	TYR A 100	8.716	-2.724	-7.919	1.00	0.00
ATOM	1518	CE2	TYR A 100	6.394	-2.831	-7.357	1.00	0.00
ATOM	1519	CZ	TYR A 100	7.523	-3.414	-7.892	1.00	0.00
ATOM	1520	OH	TYR A 100	7.459	-4.690	-8.401	1.00	0.00
ATOM	1521	H	TYR A 100	7.997	2.692	-4.878	1.00	0.00
ATOM	1522	HA	TYR A 100	6.503	0.241	-4.576	1.00	0.00
ATOM	1523	1HB	TYR A 100	6.982	1.167	-6.807	1.00	0.00
ATOM	1524	2HB	TYR A 100	8.706	0.965	-6.519	1.00	0.00
ATOM	1525	HD1	TYR A 100	9.711	-0.899	-7.425	1.00	0.00
ATOM	1526	HD2	TYR A 100	5.580	-1.089	-6.426	1.00	0.00
ATOM	1527	HE1	TYR A 100	9.601	-3.180	-8.338	1.00	0.00
ATOM	1528	HE2	TYR A 100	5.459	-3.371	-7.336	1.00	0.00
ATOM	1529	HH	TYR A 100	7.068	-4.666	-9.278	1.00	0.00
ATOM	1530	N	GLU A 101	9.740	0.347	-3.965	1.00	0.00
ATOM	1531	CA	GLU A 101	10.834	-0.346	-3.294	1.00	0.00
ATOM	1532	C	GLU A 101	10.636	-0.358	-1.780	1.00	0.00
ATOM	1533	O	GLU A 101	11.091	-1.273	-1.094	1.00	0.00
ATOM	1534	CB	GLU A 101	12.170	0.314	-3.639	1.00	0.00
ATOM	1535	CG	GLU A 101	12.795	-0.214	-4.920	1.00	0.00
ATOM	1536	CD	GLU A 101	14.281	-0.484	-4.775	1.00	0.00
ATOM	1537	OE1	GLU A 101	14.912	0.130	-3.890	1.00	0.00
ATOM	1538	OE2	GLU A 101	14.812	-1.308	-5.549	1.00	0.00
ATOM	1539	H	GLU A 101	9.904	1.230	-4.359	1.00	0.00

ATOM 1540	HA	GLU A 101	10.846	-1.366	-3.649	1.00	0.00
ATOM 1541	1HB	GLU A 101	12.014	1.377	-3.752	1.00	0.00
ATOM 1542	2HB	GLU A 101	12.862	0.144	-2.829	1.00	0.00
ATOM 1543	1HG	GLU A 101	12.303	-1.136	-5.192	1.00	0.00
ATOM 1544	2HG	GLU A 101	12.651	0.515	-5.704	1.00	0.00
ATOM 1545	N	GLU A 102	9.961	0.664	-1.265	1.00	0.00
ATOM 1546	CA	GLU A 102	9.711	0.768	0.169	1.00	0.00
ATOM 1547	C	GLU A 102	8.485	-0.047	0.573	1.00	0.00
ATOM 1548	O	GLU A 102	8.406	-0.551	1.695	1.00	0.00
ATOM 1549	CB	GLU A 102	9.521	2.233	0.569	1.00	0.00
ATOM 1550	CG	GLU A 102	10.515	2.711	1.616	1.00	0.00
ATOM 1551	CD	GLU A 102	10.896	4.168	1.434	1.00	0.00
ATOM 1552	OE1	GLU A 102	10.687	4.958	2.380	1.00	0.00
ATOM 1553	OE2	GLU A 102	11.404	4.519	0.350	1.00	0.00
ATOM 1554	H	GLU A 102	9.625	1.365	-1.861	1.00	0.00
ATOM 1555	HA	GLU A 102	10.574	0.374	0.683	1.00	0.00
ATOM 1556	1HB	GLU A 102	9.632	2.851	-0.309	1.00	0.00
ATOM 1557	2HB	GLU A 102	8.524	2.363	0.965	1.00	0.00
ATOM 1558	1HG	GLU A 102	10.076	2.589	2.594	1.00	0.00
ATOM 1559	2HG	GLU A 102	11.409	2.110	1.545	1.00	0.00
ATOM 1560	N	PHE A 103	7.532	-0.172	-0.343	1.00	0.00
ATOM 1561	CA	PHE A 103	6.310	-0.924	-0.078	1.00	0.00
ATOM 1562	C	PHE A 103	6.564	-2.427	-0.144	1.00	0.00
ATOM 1563	O	PHE A 103	5.886	-3.210	0.520	1.00	0.00
ATOM 1564	CB	PHE A 103	5.220	-0.534	-1.078	1.00	0.00
ATOM 1565	CG	PHE A 103	3.915	-1.241	-0.853	1.00	0.00
ATOM 1566	CD1	PHE A 103	3.386	-2.075	-1.826	1.00	0.00

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ATOM 1567	CD2	PHE A 103	3.215	-1.072	0.331	1.00	0.00
ATOM 1568	CE1	PHE A 103	2.185	-2.727	-1.621	1.00	0.00
ATOM 1569	CE2	PHE A 103	2.014	-1.721	0.541	1.00	0.00
ATOM 1570	CZ	PHE A 103	1.497	-2.550	-0.436	1.00	0.00
ATOM 1571	H	PHE A 103	7.650	0.253	-1.218	1.00	0.00
ATOM 1572	HA	PHE A 103	5.976	-0.671	0.918	1.00	0.00
ATOM 1573	1HB	PHE A 103	5.039	0.528	-1.007	1.00	0.00
ATOM 1574	2HB	PHE A 103	5.558	-0.768	-2.077	1.00	0.00
ATOM 1575	HD1	PHE A 103	3.923	-2.215	-2.752	1.00	0.00
ATOM 1576	HD2	PHE A 103	3.618	-0.423	1.096	1.00	0.00
ATOM 1577	HE1	PHE A 103	1.783	-3.375	-2.387	1.00	0.00
ATOM 1578	HE2	PHE A 103	1.478	-1.580	1.469	1.00	0.00
ATOM 1579	HZ	PHE A 103	0.559	-3.059	-0.274	1.00	0.00
ATOM 1580	N	LEU A 104	7.542	-2.824	-0.951	1.00	0.00
ATOM 1581	CA	LEU A 104	7.881	-4.235	-1.104	1.00	0.00
ATOM 1582	C	LEU A 104	8.832	-4.695	-0.004	1.00	0.00
ATOM 1583	O	LEU A 104	8.719	-5.812	0.502	1.00	0.00
ATOM 1584	CB	LEU A 104	8.512	-4.482	-2.475	1.00	0.00
ATOM 1585	CG	LEU A 104	7.644	-4.084	-3.669	1.00	0.00
ATOM 1586	CD1	LEU A 104	8.511	-3.769	-4.878	1.00	0.00
ATOM 1587	CD2	LEU A 104	6.650	-5.189	-3.995	1.00	0.00
ATOM 1588	H	LEU A 104	8.047	-2.154	-1.457	1.00	0.00
ATOM 1589	HA	LEU A 104	6.966	-4.804	-1.033	1.00	0.00
ATOM 1590	1HB	LEU A 104	9.438	-3.925	-2.527	1.00	0.00
ATOM 1591	2HB	LEU A 104	8.741	-5.534	-2.559	1.00	0.00
ATOM 1592	HG	LEU A 104	7.085	-3.194	-3.419	1.00	0.00
ATOM 1593	1HD1	LEU A 104	8.029	-3.013	-5.480	1.00	0.00

ATOM 1594	2HD1	LEU	A	104	8.648	-4.665	-5.466	1.00	0.00
ATOM 1595	3HD1	LEU	A	104	9.473	-3.407	-4.546	1.00	0.00
ATOM 1596	1HD2	LEU	A	104	7.019	-6.129	-3.612	1.00	0.00
ATOM 1597	2HD2	LEU	A	104	6.528	-5.259	-5.066	1.00	0.00
ATOM 1598	3HD2	LEU	A	104	5.698	-4.963	-3.538	1.00	0.00
ATOM 1599	N	ARG	A	105	9.771	-3.829	0.360	1.00	0.00
ATOM 1600	CA	ARG	A	105	10.746	-4.147	1.398	1.00	0.00
ATOM 1601	C	ARG	A	105	10.059	-4.404	2.736	1.00	0.00
ATOM 1602	O	ARG	A	105	10.297	-5.426	3.381	1.00	0.00
ATOM 1603	CB	ARG	A	105	11.758	-3.011	1.542	1.00	0.00
ATOM 1604	CG	ARG	A	105	13.094	-3.455	2.117	1.00	0.00
ATOM 1605	CD	ARG	A	105	13.577	-2.512	3.207	1.00	0.00
ATOM 1606	NE	ARG	A	105	14.917	-2.857	3.676	1.00	0.00
ATOM 1607	CZ	ARG	A	105	15.529	-2.245	4.687	1.00	0.00
ATOM 1608	NH1	ARG	A	105	14.926	-1.257	5.336	1.00	0.00
ATOM 1609	NH2	ARG	A	105	16.748	-2.622	5.048	1.00	0.00
ATOM 1610	H	ARG	A	105	9.813	-2.955	-0.081	1.00	0.00
ATOM 1611	HA	ARG	A	105	11.266	-5.044	1.098	1.00	0.00
ATOM 1612	1HB	ARG	A	105	11.936	-2.577	0.569	1.00	0.00
ATOM 1613	2HB	ARG	A	105	11.343	-2.255	2.193	1.00	0.00
ATOM 1614	1HG	ARG	A	105	12.983	-4.445	2.535	1.00	0.00
ATOM 1615	2HG	ARG	A	105	13.826	-3.479	1.323	1.00	0.00
ATOM 1616	1HD	ARG	A	105	13.591	-1.506	2.815	1.00	0.00
ATOM 1617	2HD	ARG	A	105	12.890	-2.562	4.039	1.00	0.00
ATOM 1618	HE	ARG	A	105	15.385	-3.583	3.213	1.00	0.00
ATOM 1619	1HH1	ARG	A	105	14.008	-0.968	5.069	1.00	0.00
ATOM 1620	2HH1	ARG	A	105	15.391	-0.801	6.096	1.00	0.00

ATOM 1621	1HH2	ARG	A	105	17.207	-3.365	4.561	1.00	0.00
ATOM 1622	2HH2	ARG	A	105	17.208	-2.162	5.808	1.00	0.00
ATOM 1623	N	MET	A	106	9.208	-3.470	3.148	1.00	0.00
ATOM 1624	CA	MET	A	106	8.490	-3.594	4.412	1.00	0.00
ATOM 1625	C	MET	A	106	7.560	-4.804	4.401	1.00	0.00
ATOM 1626	O	MET	A	106	7.227	-5.350	5.453	1.00	0.00
ATOM 1627	CB	MET	A	106	7.687	-2.323	4.692	1.00	0.00
ATOM 1628	CG	MET	A	106	7.176	-2.231	6.121	1.00	0.00
ATOM 1629	SD	MET	A	106	7.805	-0.785	6.997	1.00	0.00
ATOM 1630	CE	MET	A	106	7.500	0.502	5.789	1.00	0.00
ATOM 1631	H	MET	A	106	9.062	-2.678	2.591	1.00	0.00
ATOM 1632	HA	MET	A	106	9.221	-3.726	5.196	1.00	0.00
ATOM 1633	1HB	MET	A	106	8.315	-1.466	4.497	1.00	0.00
ATOM 1634	2HB	MET	A	106	6.838	-2.295	4.025	1.00	0.00
ATOM 1635	1HG	MET	A	106	6.097	-2.177	6.099	1.00	0.00
ATOM 1636	2HG	MET	A	106	7.479	-3.119	6.655	1.00	0.00
ATOM 1637	1HE	MET	A	106	6.914	0.101	4.976	1.00	0.00
ATOM 1638	2HE	MET	A	106	8.442	0.869	5.408	1.00	0.00
ATOM 1639	3HE	MET	A	106	6.960	1.313	6.256	1.00	0.00
ATOM 1640	N	THR	A	107	7.140	-5.218	3.209	1.00	0.00
ATOM 1641	CA	THR	A	107	6.245	-6.362	3.070	1.00	0.00
ATOM 1642	C	THR	A	107	7.026	-7.633	2.751	1.00	0.00
ATOM 1643	O	THR	A	107	6.513	-8.539	2.093	1.00	0.00
ATOM 1644	CB	THR	A	107	5.214	-6.096	1.973	1.00	0.00
ATOM 1645	OG1	THR	A	107	5.852	-5.784	0.748	1.00	0.00
ATOM 1646	CG2	THR	A	107	4.271	-4.959	2.303	1.00	0.00
ATOM 1647	H	THR	A	107	7.436	-4.743	2.406	1.00	0.00

ATOM 1648	HA	THR A 107	5.731	-6.496	4.010	1.00	0.00
ATOM 1649	HB	THR A 107	4.619	-6.987	1.828	1.00	0.00
ATOM 1650	HG1	THR A 107	6.261	-4.917	0.812	1.00	0.00
ATOM 1651	1HG2	THR A 107	3.521	-4.876	1.529	1.00	0.00
ATOM 1652	2HG2	THR A 107	4.828	-4.036	2.365	1.00	0.00
ATOM 1653	3HG2	THR A 107	3.789	-5.154	3.250	1.00	0.00
ATOM 1654	N	HIS A 108	8.270	-7.696	3.220	1.00	0.00
ATOM 1655	CA	HIS A 108	9.118	-8.859	2.981	1.00	0.00
ATOM 1656	C	HIS A 108	9.191	-9.182	1.490	1.00	0.00
ATOM 1657	O	HIS A 108	8.819	-10.273	1.057	1.00	0.00
ATOM 1658	CB	HIS A 108	8.591	-10.067	3.764	1.00	0.00
ATOM 1659	CG	HIS A 108	9.533	-10.548	4.825	1.00	0.00
ATOM 1660	ND1	HIS A 108	10.728	-11.175	4.541	1.00	0.00
ATOM 1661	CD2	HIS A 108	9.450	-10.492	6.175	1.00	0.00
ATOM 1662	CE1	HIS A 108	11.339	-11.484	5.671	1.00	0.00
ATOM 1663	NE2	HIS A 108	10.586	-11.080	6.677	1.00	0.00
ATOM 1664	H	HIS A 108	8.625	-6.944	3.737	1.00	0.00
ATOM 1665	HA	HIS A 108	10.111	-8.620	3.333	1.00	0.00
ATOM 1666	1HB	HIS A 108	7.663	-9.796	4.245	1.00	0.00
ATOM 1667	2HB	HIS A 108	8.412	-10.884	3.083	1.00	0.00
ATOM 1668	HD1	HIS A 108	11.077	-11.366	3.646	1.00	0.00
ATOM 1669	HD2	HIS A 108	8.641	-10.064	6.751	1.00	0.00
ATOM 1670	HE1	HIS A 108	12.294	-11.982	5.758	1.00	0.00
ATOM 1671	HE2	HIS A 108	10.763	-11.259	7.624	1.00	0.00
ATOM 1672	N	ASN A 109	9.671	-8.221	0.707	1.00	0.00
ATOM 1673	CA	ASN A 109	9.787	-8.397	-0.735	1.00	0.00
ATOM 1674	C	ASN A 109	8.415	-8.617	-1.363	1.00	0.00

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ATOM 1675	O	ASN A 109	8.266	-9.407	-2.295	1.00	0.00
ATOM 1676	CB	ASN A 109	10.704	-9.580	-1.055	1.00	0.00
ATOM 1677	CG	ASN A 109	12.090	-9.415	-0.463	1.00	0.00
ATOM 1678	OD1	ASN A 109	12.392	-8.402	0.166	1.00	0.00
ATOM 1679	ND2	ASN A 109	12.942	-10.413	-0.665	1.00	0.00
ATOM 1680	H	ASN A 109	9.947	-7.370	1.108	1.00	0.00
ATOM 1681	HA	ASN A 109	10.218	-7.496	-1.147	1.00	0.00
ATOM 1682	1HB	ASN A 109	10.268	-10.484	-0.656	1.00	0.00
ATOM 1683	2HB	ASN A 109	10.799	-9.674	-2.128	1.00	0.00
ATOM 1684	1HD2	ASN A 109	12.634	-11.190	-1.176	1.00	0.00
ATOM 1685	2HD2	ASN A 109	13.845	-10.332	-0.293	1.00	0.00
ATOM 1686	N	GLY A 110	7.413	-7.915	-0.842	1.00	0.00
ATOM 1687	CA	GLY A 110	6.064	-8.048	-1.359	1.00	0.00
ATOM 1688	C	GLY A 110	5.531	-9.460	-1.221	1.00	0.00
ATOM 1689	O	GLY A 110	5.372	-10.169	-2.215	1.00	0.00
ATOM 1690	H	GLY A 110	7.593	-7.302	-0.097	1.00	0.00
ATOM 1691	1HA	GLY A 110	5.415	-7.374	-0.819	1.00	0.00
ATOM 1692	2HA	GLY A 110	6.062	-7.774	-2.404	1.00	0.00
ATOM 1693	N	THR A 111	5.258	-9.871	0.013	1.00	0.00
ATOM 1694	CA	THR A 111	4.744	-11.210	0.275	1.00	0.00
ATOM 1695	C	THR A 111	3.696	-11.192	1.382	1.00	0.00
ATOM 1696	O	THR A 111	2.638	-11.809	1.257	1.00	0.00
ATOM 1697	CB	THR A 111	5.888	-12.150	0.657	1.00	0.00
ATOM 1698	OG1	THR A 111	6.640	-11.613	1.730	1.00	0.00
ATOM 1699	CG2	THR A 111	6.845	-12.424	-0.483	1.00	0.00
ATOM 1700	H	THR A 111	5.410	-9.260	0.765	1.00	0.00
ATOM 1701	HA	THR A 111	4.285	-11.570	-0.634	1.00	0.00



ATOM 1702	HB	THR A 111	5.471	-13.096	0.974	1.00	0.00
ATOM 1703	HG1	THR A 111	6.928	-10.725	1.506	1.00	0.00
ATOM 1704	1HG2	THR A 111	7.737	-11.831	-0.355	1.00	0.00
ATOM 1705	2HG2	THR A 111	6.373	-12.167	-1.420	1.00	0.00
ATOM 1706	3HG2	THR A 111	7.108	-13.472	-0.488	1.00	0.00
ATOM 1707	N	GLN A 112	3.995	-10.488	2.470	1.00	0.00
ATOM 1708	CA	GLN A 112	3.076	-10.401	3.598	1.00	0.00
ATOM 1709	C	GLN A 112	2.840	-8.951	4.012	1.00	0.00
ATOM 1710	O	GLN A 112	3.646	-8.362	4.731	1.00	0.00
ATOM 1711	CB	GLN A 112	3.619	-11.198	4.786	1.00	0.00
ATOM 1712	CG	GLN A 112	2.541	-11.914	5.583	1.00	0.00
ATOM 1713	CD	GLN A 112	2.873	-12.007	7.059	1.00	0.00
ATOM 1714	OE1	GLN A 112	4.042	-12.069	7.442	1.00	0.00
ATOM 1715	NE2	GLN A 112	1.844	-12.019	7.898	1.00	0.00
ATOM 1716	H	GLN A 112	4.856	-10.020	2.516	1.00	0.00
ATOM 1717	HA	GLN A 112	2.135	-10.830	3.291	1.00	0.00
ATOM 1718	1HB	GLN A 112	4.317	-11.937	4.419	1.00	0.00
ATOM 1719	2HB	GLN A 112	4.140	-10.524	5.449	1.00	0.00
ATOM 1720	1HG	GLN A 112	1.612	-11.375	5.473	1.00	0.00
ATOM 1721	2HG	GLN A 112	2.425	-12.914	5.191	1.00	0.00
ATOM 1722	1HE2	GLN A 112	0.940	-11.967	7.522	1.00	0.00
ATOM 1723	2HE2	GLN A 112	2.030	-12.079	8.858	1.00	0.00
ATOM 1724	N	LEU A 113	1.725	-8.384	3.558	1.00	0.00
ATOM 1725	CA	LEU A 113	1.381	-7.005	3.890	1.00	0.00
ATOM 1726	C	LEU A 113	0.642	-6.942	5.223	1.00	0.00
ATOM 1727	O	LEU A 113	-0.587	-6.952	5.263	1.00	0.00
ATOM 1728	CB	LEU A 113	0.523	-6.389	2.779	1.00	0.00

ATOM 1729	CG	LEU A 113	0.116	-4.921	2.983	1.00	0.00
ATOM 1730	CD1	LEU A 113	-1.204	-4.831	3.732	1.00	0.00
ATOM 1731	CD2	LEU A 113	1.201	-4.146	3.718	1.00	0.00
ATOM 1732	H	LEU A 113	1.118	-8.905	2.992	1.00	0.00
ATOM 1733	HA	LEU A 113	2.301	-6.446	3.975	1.00	0.00
ATOM 1734	1HB	LEU A 113	1.074	-6.458	1.851	1.00	0.00
ATOM 1735	2HB	LEU A 113	-0.377	-6.977	2.684	1.00	0.00
ATOM 1736	HG	LEU A 113	-0.023	-4.461	2.015	1.00	0.00
ATOM 1737	1HD1	LEU A 113	-1.744	-5.761	3.625	1.00	0.00
ATOM 1738	2HD1	LEU A 113	-1.794	-4.023	3.325	1.00	0.00
ATOM 1739	3HD1	LEU A 113	-1.012	-4.645	4.778	1.00	0.00
ATOM 1740	1HD2	LEU A 113	1.426	-4.640	4.652	1.00	0.00
ATOM 1741	2HD2	LEU A 113	0.854	-3.143	3.917	1.00	0.00
ATOM 1742	3HD2	LEU A 113	2.091	-4.105	3.109	1.00	0.00
ATOM 1743	N	LEU A 114	1.404	-6.879	6.311	1.00	0.00
ATOM 1744	CA	LEU A 114	0.827	-6.817	7.650	1.00	0.00
ATOM 1745	C	LEU A 114	-0.013	-8.059	7.945	1.00	0.00
ATOM 1746	O	LEU A 114	0.453	-8.993	8.596	1.00	0.00
ATOM 1747	CB	LEU A 114	-0.026	-5.555	7.804	1.00	0.00
ATOM 1748	CG	LEU A 114	0.761	-4.245	7.866	1.00	0.00
ATOM 1749	CD1	LEU A 114	-0.177	-3.052	7.773	1.00	0.00
ATOM 1750	CD2	LEU A 114	1.587	-4.180	9.143	1.00	0.00
ATOM 1751	H	LEU A 114	2.378	-6.877	6.212	1.00	0.00
ATOM 1752	HA	LEU A 114	1.641	-6.776	8.357	1.00	0.00
ATOM 1753	1HB	LEU A 114	-0.708	-5.502	6.968	1.00	0.00
ATOM 1754	2HB	LEU A 114	-0.603	-5.644	8.712	1.00	0.00
ATOM 1755	HG	LEU A 114	1.439	-4.203	7.026	1.00	0.00

ATOM 1756	1HD1	LEU	A	114	0.153	-2.279	8.451	1.00	0.00
ATOM 1757	2HD1	LEU	A	114	-1.179	-3.360	8.038	1.00	0.00
ATOM 1758	3HD1	LEU	A	114	-0.174	-2.670	6.762	1.00	0.00
ATOM 1759	1HD2	LEU	A	114	1.716	-5.177	9.540	1.00	0.00
ATOM 1760	2HD2	LEU	A	114	1.078	-3.566	9.870	1.00	0.00
ATOM 1761	3HD2	LEU	A	114	2.554	-3.752	8.924	1.00	0.00
ATOM 1762	N	ASN	A	115	-1.252	-8.062	7.462	1.00	0.00
ATOM 1763	CA	ASN	A	115	-2.153	-9.189	7.675	1.00	0.00
ATOM 1764	C	ASN	A	115	-2.830	-9.599	6.372	1.00	0.00
ATOM 1765	O	ASN	A	115	-3.959	-10.088	6.373	1.00	0.00
ATOM 1766	CB	ASN	A	115	-3.211	-8.832	8.721	1.00	0.00
ATOM 1767	CG	ASN	A	115	-2.608	-8.205	9.964	1.00	0.00
ATOM 1768	OD1	ASN	A	115	-2.499	-6.982	10.066	1.00	0.00
ATOM 1769	ND2	ASN	A	115	-2.211	-9.042	10.915	1.00	0.00
ATOM 1770	H	ASN	A	115	-1.568	-7.288	6.950	1.00	0.00
ATOM 1771	HA	ASN	A	115	-1.566	-10.018	8.039	1.00	0.00
ATOM 1772	1HB	ASN	A	115	-3.911	-8.130	8.292	1.00	0.00
ATOM 1773	2HB	ASN	A	115	-3.739	-9.728	9.012	1.00	0.00
ATOM 1774	1HD2	ASN	A	115	-2.328	-10.002	10.765	1.00	0.00
ATOM 1775	2HD2	ASN	A	115	-1.818	-8.663	11.729	1.00	0.00
ATOM 1776	N	PHE	A	116	-2.131	-9.396	5.259	1.00	0.00
ATOM 1777	CA	PHE	A	116	-2.665	-9.745	3.948	1.00	0.00
ATOM 1778	C	PHE	A	116	-1.543	-10.128	2.987	1.00	0.00
ATOM 1779	O	PHE	A	116	-0.898	-9.264	2.394	1.00	0.00
ATOM 1780	CB	PHE	A	116	-3.465	-8.575	3.373	1.00	0.00
ATOM 1781	CG	PHE	A	116	-4.876	-8.502	3.887	1.00	0.00
ATOM 1782	CD1	PHE	A	116	-5.928	-8.990	3.129	1.00	0.00

ATOM 1783	CD2	PHE A 116	-5.148	-7.945	5.125	1.00	0.00
ATOM 1784	CE1	PHE A 116	-7.226	-8.924	3.599	1.00	0.00
ATOM 1785	CE2	PHE A 116	-6.443	-7.877	5.600	1.00	0.00
ATOM 1786	CZ	PHE A 116	-7.485	-8.367	4.836	1.00	0.00
ATOM 1787	H	PHE A 116	-1.236	-9.003	5.321	1.00	0.00
ATOM 1788	HA	PHE A 116	-3.323	-10.592	4.071	1.00	0.00
ATOM 1789	1HB	PHE A 116	-2.972	-7.649	3.629	1.00	0.00
ATOM 1790	2HB	PHE A 116	-3.507	-8.669	2.297	1.00	0.00
ATOM 1791	HD1	PHE A 116	-5.728	-9.425	2.162	1.00	0.00
ATOM 1792	HD2	PHE A 116	-4.334	-7.561	5.724	1.00	0.00
ATOM 1793	HE1	PHE A 116	-8.039	-9.307	2.999	1.00	0.00
ATOM 1794	HE2	PHE A 116	-6.643	-7.441	6.568	1.00	0.00
ATOM 1795	HZ	PHE A 116	-8.498	-8.314	5.205	1.00	0.00
ATOM 1796	N	THR A 117	-1.316	-11.429	2.840	1.00	0.00
ATOM 1797	CA	THR A 117	-0.272	-11.927	1.952	1.00	0.00
ATOM 1798	C	THR A 117	-0.583	-11.584	0.499	1.00	0.00
ATOM 1799	O	THR A 117	-1.640	-11.939	-0.020	1.00	0.00
ATOM 1800	CB	THR A 117	-0.118	-13.441	2.110	1.00	0.00
ATOM 1801	OG1	THR A 117	-1.183	-14.122	1.470	1.00	0.00
ATOM 1802	CG2	THR A 117	-0.084	-13.893	3.553	1.00	0.00
ATOM 1803	H	THR A 117	-1.864	-12.070	3.340	1.00	0.00
ATOM 1804	HA	THR A 117	0.654	-11.450	2.231	1.00	0.00
ATOM 1805	HB	THR A 117	0.808	-13.748	1.645	1.00	0.00
ATOM 1806	HG1	THR A 117	-0.857	-14.549	0.674	1.00	0.00
ATOM 1807	1HG2	THR A 117	-0.828	-14.661	3.708	1.00	0.00
ATOM 1808	2HG2	THR A 117	-0.297	-13.053	4.198	1.00	0.00
ATOM 1809	3HG2	THR A 117	0.894	-14.286	3.785	1.00	0.00

ATOM	1810	N	LEU	A	118	0.345	-10.889	-0.153	1.00	0.00
ATOM	1811	CA	LEU	A	118	0.165	-10.498	-1.546	1.00	0.00
ATOM	1812	C	LEU	A	118	1.442	-10.729	-2.349	1.00	0.00
ATOM	1813	O	LEU	A	118	2.534	-10.817	-1.788	1.00	0.00
ATOM	1814	CB	LEU	A	118	-0.261	-9.032	-1.637	1.00	0.00
ATOM	1815	CG	LEU	A	118	0.728	-8.026	-1.046	1.00	0.00
ATOM	1816	CD1	LEU	A	118	1.717	-7.563	-2.103	1.00	0.00
ATOM	1817	CD2	LEU	A	118	-0.017	-6.841	-0.454	1.00	0.00
ATOM	1818	H	LEU	A	118	1.168	-10.633	0.314	1.00	0.00
ATOM	1819	HA	LEU	A	118	-0.618	-11.116	-1.960	1.00	0.00
ATOM	1820	1HB	LEU	A	118	-0.414	-8.787	-2.677	1.00	0.00
ATOM	1821	2HB	LEU	A	118	-1.201	-8.922	-1.116	1.00	0.00
ATOM	1822	HG	LEU	A	118	1.286	-8.501	-0.253	1.00	0.00
ATOM	1823	1HD1	LEU	A	118	2.621	-8.151	-2.033	1.00	0.00
ATOM	1824	2HD1	LEU	A	118	1.952	-6.521	-1.944	1.00	0.00
ATOM	1825	3HD1	LEU	A	118	1.281	-7.689	-3.083	1.00	0.00
ATOM	1826	1HD2	LEU	A	118	-0.317	-7.074	0.557	1.00	0.00
ATOM	1827	2HD2	LEU	A	118	-0.892	-6.634	-1.050	1.00	0.00
ATOM	1828	3HD2	LEU	A	118	0.628	-5.975	-0.448	1.00	0.00
ATOM	1829	N	ASP	A	119	1.293	-10.832	-3.666	1.00	0.00
ATOM	1830	CA	ASP	A	119	2.432	-11.060	-4.551	1.00	0.00
ATOM	1831	C	ASP	A	119	3.291	-9.807	-4.680	1.00	0.00
ATOM	1832	O	ASP	A	119	2.883	-8.717	-4.281	1.00	0.00
ATOM	1833	CB	ASP	A	119	1.946	-11.505	-5.933	1.00	0.00
ATOM	1834	CG	ASP	A	119	2.697	-12.719	-6.445	1.00	0.00
ATOM	1835	OD1	ASP	A	119	2.101	-13.816	-6.475	1.00	0.00
ATOM	1836	OD2	ASP	A	119	3.879	-12.572	-6.818	1.00	0.00

ATOM 1837	H	ASP A 119	0.396	-10.757	-4.052	1.00	0.00
ATOM 1838	HA	ASP A 119	3.030	-11.849	-4.121	1.00	0.00
ATOM 1839	1HB	ASP A 119	0.897	-11.753	-5.876	1.00	0.00
ATOM 1840	2HB	ASP A 119	2.083	-10.697	-6.635	1.00	0.00
ATOM 1841	N	ARG A 120	4.485	-9.973	-5.241	1.00	0.00
ATOM 1842	CA	ARG A 120	5.405	-8.856	-5.426	1.00	0.00
ATOM 1843	C	ARG A 120	5.469	-8.437	-6.890	1.00	0.00
ATOM 1844	O	ARG A 120	5.350	-7.256	-7.214	1.00	0.00
ATOM 1845	CB	ARG A 120	6.804	-9.236	-4.933	1.00	0.00
ATOM 1846	CG	ARG A 120	7.794	-8.081	-4.968	1.00	0.00
ATOM 1847	CD	ARG A 120	8.962	-8.366	-5.899	1.00	0.00
ATOM 1848	NE	ARG A 120	8.894	-7.571	-7.123	1.00	0.00
ATOM 1849	CZ	ARG A 120	9.935	-7.346	-7.922	1.00	0.00
ATOM 1850	NH1	ARG A 120	11.125	-7.857	-7.632	1.00	0.00
ATOM 1851	NH2	ARG A 120	9.786	-6.608	-9.013	1.00	0.00
ATOM 1852	H	ARG A 120	4.753	-10.867	-5.539	1.00	0.00
ATOM 1853	HA	ARG A 120	5.041	-8.026	-4.840	1.00	0.00
ATOM 1854	1HB	ARG A 120	6.730	-9.588	-3.915	1.00	0.00
ATOM 1855	2HB	ARG A 120	7.187	-10.032	-5.553	1.00	0.00
ATOM 1856	1HG	ARG A 120	7.283	-7.194	-5.313	1.00	0.00
ATOM 1857	2HG	ARG A 120	8.172	-7.915	-3.970	1.00	0.00
ATOM 1858	1HD	ARG A 120	9.882	-8.135	-5.382	1.00	0.00
ATOM 1859	2HD	ARG A 120	8.952	-9.414	-6.161	1.00	0.00
ATOM 1860	HE	ARG A 120	8.026	-7.182	-7.362	1.00	0.00
ATOM 1861	1HH1	ARG A 120	11.244	-8.415	-6.811	1.00	0.00
ATOM 1862	2HH1	ARG A 120	11.903	-7.685	-8.236	1.00	0.00
ATOM 1863	1HH2	ARG A 120	8.891	-6.221	-9.236	1.00	0.00

ATOM	1864	2HH2	ARG	A	120	10.567	-6.439	-9.613	1.00	0.00
ATOM	1865	N	LYS	A	121	5.659	-9.413	-7.773	1.00	0.00
ATOM	1866	CA	LYS	A	121	5.740	-9.145	-9.205	1.00	0.00
ATOM	1867	C	LYS	A	121	4.480	-8.440	-9.700	1.00	0.00
ATOM	1868	O	LYS	A	121	4.532	-7.640	-10.634	1.00	0.00
ATOM	1869	CB	LYS	A	121	5.948	-10.448	-9.979	1.00	0.00
ATOM	1870	CG	LYS	A	121	4.812	-11.443	-9.813	1.00	0.00
ATOM	1871	CD	LYS	A	121	4.899	-12.563	-10.836	1.00	0.00
ATOM	1872	CE	LYS	A	121	3.612	-13.371	-10.888	1.00	0.00
ATOM	1873	NZ	LYS	A	121	3.868	-14.804	-11.200	1.00	0.00
ATOM	1874	H	LYS	A	121	5.748	-10.336	-7.454	1.00	0.00
ATOM	1875	HA	LYS	A	121	6.588	-8.497	-9.373	1.00	0.00
ATOM	1876	1HB	LYS	A	121	6.046	-10.217	-11.029	1.00	0.00
ATOM	1877	2HB	LYS	A	121	6.860	-10.914	-9.636	1.00	0.00
ATOM	1878	1HG	LYS	A	121	4.862	-11.869	-8.822	1.00	0.00
ATOM	1879	2HG	LYS	A	121	3.872	-10.925	-9.937	1.00	0.00
ATOM	1880	1HD	LYS	A	121	5.082	-12.134	-11.811	1.00	0.00
ATOM	1881	2HD	LYS	A	121	5.715	-13.218	-10.570	1.00	0.00
ATOM	1882	1HE	LYS	A	121	3.120	-13.303	-9.929	1.00	0.00
ATOM	1883	2HE	LYS	A	121	2.971	-12.954	-11.651	1.00	0.00
ATOM	1884	1HZ	LYS	A	121	3.004	-15.363	-11.047	1.00	0.00
ATOM	1885	2HZ	LYS	A	121	4.621	-15.175	-10.586	1.00	0.00
ATOM	1886	3HZ	LYS	A	121	4.164	-14.907	-12.192	1.00	0.00
ATOM	1887	N	SER	A	122	3.352	-8.742	-9.067	1.00	0.00
ATOM	1888	CA	SER	A	122	2.080	-8.135	-9.442	1.00	0.00
ATOM	1889	C	SER	A	122	2.049	-6.662	-9.053	1.00	0.00
ATOM	1890	O	SER	A	122	1.398	-5.849	-9.709	1.00	0.00

ATOM 1891	CB	SER A 122	0.920	-8.878	-8.775	1.00	0.00
ATOM 1892	OG	SER A 122	0.970	-8.741	-7.366	1.00	0.00
ATOM 1893	H	SER A 122	3.375	-9.387	-8.328	1.00	0.00
ATOM 1894	HA	SER A 122	1.978	-8.215	-10.514	1.00	0.00
ATOM 1895	1HB	SER A 122	-0.015	-8.471	-9.130	1.00	0.00
ATOM 1896	2HB	SER A 122	0.975	-9.926	-9.025	1.00	0.00
ATOM 1897	HG	SER A 122	0.099	-8.903	-6.997	1.00	0.00
ATOM 1898	N	VAL A 123	2.758	-6.324	-7.980	1.00	0.00
ATOM 1899	CA	VAL A 123	2.814	-4.948	-7.502	1.00	0.00
ATOM 1900	C	VAL A 123	3.398	-4.023	-8.565	1.00	0.00
ATOM 1901	O	VAL A 123	4.309	-4.404	-9.300	1.00	0.00
ATOM 1902	CB	VAL A 123	3.657	-4.835	-6.217	1.00	0.00
ATOM 1903	CG1	VAL A 123	3.607	-3.420	-5.661	1.00	0.00
ATOM 1904	CG2	VAL A 123	3.182	-5.840	-5.176	1.00	0.00
ATOM 1905	H	VAL A 123	3.257	-7.017	-7.499	1.00	0.00
ATOM 1906	HA	VAL A 123	1.806	-4.632	-7.276	1.00	0.00
ATOM 1907	HB	VAL A 123	4.684	-5.064	-6.463	1.00	0.00
ATOM 1908	1HG1	VAL A 123	3.738	-2.712	-6.467	1.00	0.00
ATOM 1909	2HG1	VAL A 123	4.396	-3.290	-4.935	1.00	0.00
ATOM 1910	3HG1	VAL A 123	2.651	-3.252	-5.187	1.00	0.00
ATOM 1911	1HG2	VAL A 123	2.570	-5.336	-4.443	1.00	0.00
ATOM 1912	2HG2	VAL A 123	4.037	-6.283	-4.688	1.00	0.00
ATOM 1913	3HG2	VAL A 123	2.603	-6.613	-5.659	1.00	0.00
ATOM 1914	N	PHE A 124	2.868	-2.807	-8.640	1.00	0.00
ATOM 1915	CA	PHE A 124	3.337	-1.828	-9.613	1.00	0.00
ATOM 1916	C	PHE A 124	2.720	-0.459	-9.346	1.00	0.00
ATOM 1917	O	PHE A 124	1.515	-0.342	-9.124	1.00	0.00



ATOM 1918	CB	PHE A 124	2.997	-2.284	-11.033	1.00	0.00
ATOM 1919	CG	PHE A 124	3.610	-1.425	-12.102	1.00	0.00
ATOM 1920	CD1	PHE A 124	4.636	-1.913	-12.898	1.00	0.00
ATOM 1921	CD2	PHE A 124	3.162	-0.130	-12.312	1.00	0.00
ATOM 1922	CE1	PHE A 124	5.203	-1.125	-13.881	1.00	0.00
ATOM 1923	CE2	PHE A 124	3.725	0.662	-13.294	1.00	0.00
ATOM 1924	CZ	PHE A 124	4.747	0.164	-14.080	1.00	0.00
ATOM 1925	H	PHE A 124	2.144	-2.562	-8.026	1.00	0.00
ATOM 1926	HA	PHE A 124	4.409	-1.752	-9.516	1.00	0.00
ATOM 1927	1HB	PHE A 124	3.353	-3.293	-11.175	1.00	0.00
ATOM 1928	2HB	PHE A 124	1.925	-2.264	-11.164	1.00	0.00
ATOM 1929	HD1	PHE A 124	4.992	-2.920	-12.744	1.00	0.00
ATOM 1930	HD2	PHE A 124	2.364	0.260	-11.699	1.00	0.00
ATOM 1931	HE1	PHE A 124	6.002	-1.516	-14.494	1.00	0.00
ATOM 1932	HE2	PHE A 124	3.368	1.669	-13.448	1.00	0.00
ATOM 1933	HZ	PHE A 124	5.189	0.782	-14.848	1.00	0.00
ATOM 1934	N	VAL A 125	3.555	0.575	-9.370	1.00	0.00
ATOM 1935	CA	VAL A 125	3.090	1.935	-9.131	1.00	0.00
ATOM 1936	C	VAL A 125	3.624	2.891	-10.194	1.00	0.00
ATOM 1937	O	VAL A 125	4.805	2.856	-10.539	1.00	0.00
ATOM 1938	CB	VAL A 125	3.515	2.438	-7.737	1.00	0.00
ATOM 1939	CG1	VAL A 125	5.032	2.496	-7.623	1.00	0.00
ATOM 1940	CG2	VAL A 125	2.897	3.798	-7.447	1.00	0.00
ATOM 1941	H	VAL A 125	4.505	0.418	-9.552	1.00	0.00
ATOM 1942	HA	VAL A 125	2.012	1.931	-9.176	1.00	0.00
ATOM 1943	HB	VAL A 125	3.150	1.738	-6.999	1.00	0.00
ATOM 1944	1HG1	VAL A 125	5.376	3.485	-7.887	1.00	0.00

ATOM 1945	2HG1	VAL	A	125	5.471	1.771	-8.293	1.00	0.00
ATOM 1946	3HG1	VAL	A	125	5.326	2.272	-6.608	1.00	0.00
ATOM 1947	1HG2	VAL	A	125	2.024	3.671	-6.825	1.00	0.00
ATOM 1948	2HG2	VAL	A	125	2.612	4.269	-8.376	1.00	0.00
ATOM 1949	3HG2	VAL	A	125	3.617	4.420	-6.936	1.00	0.00
ATOM 1950	N	ASP	A	126	2.746	3.743	-10.711	1.00	0.00
ATOM 1951	CA	ASP	A	126	3.128	4.708	-11.736	1.00	0.00
ATOM 1952	C	ASP	A	126	2.784	6.129	-11.300	1.00	0.00
ATOM 1953	O	ASP	A	126	2.166	6.337	-10.257	1.00	0.00
ATOM 1954	CB	ASP	A	126	2.429	4.382	-13.058	1.00	0.00
ATOM 1955	CG	ASP	A	126	3.348	4.546	-14.252	1.00	0.00
ATOM 1956	OD1	ASP	A	126	3.319	3.676	-15.148	1.00	0.00
ATOM 1957	OD2	ASP	A	126	4.096	5.545	-14.294	1.00	0.00
ATOM 1958	H	ASP	A	126	1.817	3.722	-10.396	1.00	0.00
ATOM 1959	HA	ASP	A	126	4.195	4.636	-11.877	1.00	0.00
ATOM 1960	1HB	ASP	A	126	2.082	3.360	-13.032	1.00	0.00
ATOM 1961	2HB	ASP	A	126	1.582	5.042	-13.184	1.00	0.00
ATOM 1962	N	SER	A	127	3.189	7.103	-12.109	1.00	0.00
ATOM 1963	CA	SER	A	127	2.924	8.506	-11.808	1.00	0.00
ATOM 1964	C	SER	A	127	1.546	8.919	-12.313	1.00	0.00
ATOM 1965	O	SER	A	127	1.305	8.968	-13.519	1.00	0.00
ATOM 1966	CB	SER	A	127	3.998	9.396	-12.436	1.00	0.00
ATOM 1967	OG	SER	A	127	5.285	8.817	-12.299	1.00	0.00
ATOM 1968	H	SER	A	127	3.678	6.874	-12.927	1.00	0.00
ATOM 1969	HA	SER	A	127	2.952	8.625	-10.735	1.00	0.00
ATOM 1970	1HB	SER	A	127	3.787	9.527	-13.486	1.00	0.00
ATOM 1971	2HB	SER	A	127	3.996	10.359	-11.945	1.00	0.00

ATOM 1972	HG	SER A 127	5.442	8.212	-13.027	1.00	0.00
ATOM 1973	N	GLY A 128	0.645	9.215	-11.382	1.00	0.00
ATOM 1974	CA	GLY A 128	-0.698	9.620	-11.754	1.00	0.00
ATOM 1975	C	GLY A 128	-0.730	10.977	-12.434	1.00	0.00
ATOM 1976	O	GLY A 128	0.248	11.380	-13.063	1.00	0.00
ATOM 1977	H	GLY A 128	0.893	9.159	-10.436	1.00	0.00
ATOM 1978	1HA	GLY A 128	-1.112	8.882	-12.426	1.00	0.00
ATOM 1979	2HA	GLY A 128	-1.309	9.663	-10.864	1.00	0.00
ATOM 1980	N	PRO A 129	-1.851	11.710	-12.324	1.00	0.00
ATOM 1981	CA	PRO A 129	-1.992	13.033	-12.940	1.00	0.00
ATOM 1982	C	PRO A 129	-1.125	14.085	-12.256	1.00	0.00
ATOM 1983	O	PRO A 129	-1.181	14.254	-11.038	1.00	0.00
ATOM 1984	CB	PRO A 129	-3.476	13.357	-12.749	1.00	0.00
ATOM 1985	CG	PRO A 129	-3.886	12.567	-11.556	1.00	0.00
ATOM 1986	CD	PRO A 129	-3.066	11.307	-11.592	1.00	0.00
ATOM 1987	HA	PRO A 129	-1.759	13.006	-13.994	1.00	0.00
ATOM 1988	1HB	PRO A 129	-3.596	14.418	-12.583	1.00	0.00
ATOM 1989	2HB	PRO A 129	-4.028	13.060	-13.627	1.00	0.00
ATOM 1990	1HG	PRO A 129	-3.675	13.126	-10.655	1.00	0.00
ATOM 1991	2HG	PRO A 129	-4.937	12.331	-11.615	1.00	0.00
ATOM 1992	1HD	PRO A 129	-2.824	10.985	-10.590	1.00	0.00
ATOM 1993	2HD	PRO A 129	-3.595	10.528	-12.123	1.00	0.00
ATOM 1994	N	SER A 130	-0.324	14.791	-13.049	1.00	0.00
ATOM 1995	CA	SER A 130	0.556	15.826	-12.521	1.00	0.00
ATOM 1996	C	SER A 130	0.364	17.139	-13.275	1.00	0.00
ATOM 1997	O	SER A 130	0.698	17.243	-14.454	1.00	0.00
ATOM 1998	CB	SER A 130	2.016	15.380	-12.612	1.00	0.00

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ATOM	1999	OG	SER A 130	2.437	14.761	-11.408	1.00	0.00
ATOM	2000	H	SER A 130	-0.324	14.610	-14.013	1.00	0.00
ATOM	2001	HA	SER A 130	0.300	15.981	-11.483	1.00	0.00
ATOM	2002	1HB	SER A 130	2.124	14.675	-13.422	1.00	0.00
ATOM	2003	2HB	SER A 130	2.643	16.240	-12.799	1.00	0.00
ATOM	2004	HG	SER A 130	3.335	15.033	-11.205	1.00	0.00
ATOM	2005	N	SER A 131	-0.176	18.138	-12.584	1.00	0.00
ATOM	2006	CA	SER A 131	-0.412	19.444	-13.188	1.00	0.00
ATOM	2007	C	SER A 131	-1.366	19.330	-14.373	1.00	0.00
ATOM	2008	O	SER A 131	-0.979	18.890	-15.455	1.00	0.00
ATOM	2009	CB	SER A 131	0.910	20.066	-13.642	1.00	0.00
ATOM	2010	OG	SER A 131	0.692	21.297	-14.310	1.00	0.00
ATOM	2011	H	SER A 131	-0.422	17.993	-11.647	1.00	0.00
ATOM	2012	HA	SER A 131	-0.861	20.080	-12.440	1.00	0.00
ATOM	2013	1HB	SER A 131	1.536	20.244	-12.781	1.00	0.00
ATOM	2014	2HB	SER A 131	1.411	19.389	-14.317	1.00	0.00
ATOM	2015	HG	SER A 131	1.119	22.005	-13.823	1.00	0.00
ATOM	2016	N	GLY A 132	-2.616	19.730	-14.161	1.00	0.00
ATOM	2017	CA	GLY A 132	-3.605	19.664	-15.220	1.00	0.00
ATOM	2018	C	GLY A 132	-4.902	20.353	-14.846	1.00	0.00
ATOM	2019	H	GLY A 132	-2.868	20.072	-13.277	1.00	0.00
ATOM	2020	1HA	GLY A 132	-3.202	20.136	-16.103	1.00	0.00
ATOM	2021	2HA	GLY A 132	-3.811	18.628	-15.441	1.00	0.00
TER	2022		GLY A 132					

ENDMDL

Three-Dimensional Structure Coordinate 14

ATOM 1	N	GLY A	1	-15.118	19.494	-1.404	1.00	0.00
ATOM 2	CA	GLY A	1	-15.639	19.631	-2.792	1.00	0.00
ATOM 3	C	GLY A	1	-14.804	18.872	-3.803	1.00	0.00
ATOM 4	O	GLY A	1	-15.309	18.452	-4.844	1.00	0.00
ATOM 5	1H	GLY A	1	-15.854	19.760	-0.718	1.00	0.00
ATOM 6	2H	GLY A	1	-14.294	20.113	-1.268	1.00	0.00
ATOM 7	3H	GLY A	1	-14.831	18.511	-1.226	1.00	0.00
ATOM 8	1HA	GLY A	1	-16.651	19.256	-2.823	1.00	0.00
ATOM 9	2HA	GLY A	1	-15.645	20.677	-3.060	1.00	0.00
ATOM 10	N	SER A	2	-13.523	18.696	-3.497	1.00	0.00
ATOM 11	CA	SER A	2	-12.615	17.981	-4.388	1.00	0.00
ATOM 12	C	SER A	2	-12.507	18.688	-5.735	1.00	0.00
ATOM 13	O	SER A	2	-12.307	18.048	-6.768	1.00	0.00
ATOM 14	CB	SER A	2	-13.092	16.542	-4.590	1.00	0.00
ATOM 15	OG	SER A	2	-11.997	15.645	-4.656	1.00	0.00
ATOM 16	H	SER A	2	-13.179	19.054	-2.652	1.00	0.00
ATOM 17	HA	SER A	2	-11.640	17.967	-3.923	1.00	0.00
ATOM 18	1HB	SER A	2	-13.725	16.255	-3.763	1.00	0.00
ATOM 19	2HB	SER A	2	-13.652	16.477	-5.511	1.00	0.00
ATOM 20	HG	SER A	2	-12.215	14.915	-5.240	1.00	0.00
ATOM 21	N	SER A	3	-12.642	20.009	-5.717	1.00	0.00
ATOM 22	CA	SER A	3	-12.560	20.803	-6.938	1.00	0.00
ATOM 23	C	SER A	3	-11.388	21.778	-6.875	1.00	0.00
ATOM 24	O	SER A	3	-10.678	21.975	-7.861	1.00	0.00
ATOM 25	CB	SER A	3	-13.865	21.570	-7.162	1.00	0.00
ATOM 26	OG	SER A	3	-14.931	20.685	-7.459	1.00	0.00
ATOM 27	H	SER A	3	-12.801	20.463	-4.863	1.00	0.00

ATOM 28	HA	SER A	3	-12.404	20.126	-7.764	1.00	0.00
ATOM 29	1HB	SER A	3	-14.112	22.124	-6.269	1.00	0.00
ATOM 30	2HB	SER A	3	-13.740	22.255	-7.988	1.00	0.00
ATOM 31	HG	SER A	3	-15.750	21.182	-7.528	1.00	0.00
ATOM 32	N	GLY A	4	-11.193	22.387	-5.709	1.00	0.00
ATOM 33	CA	GLY A	4	-10.107	23.334	-5.540	1.00	0.00
ATOM 34	C	GLY A	4	-9.347	23.120	-4.246	1.00	0.00
ATOM 35	O	GLY A	4	-9.921	23.198	-3.161	1.00	0.00
ATOM 36	H	GLY A	4	-11.792	22.191	-4.959	1.00	0.00
ATOM 37	1HA	GLY A	4	-9.422	23.232	-6.369	1.00	0.00
ATOM 38	2HA	GLY A	4	-10.514	24.334	-5.544	1.00	0.00
ATOM 39	N	SER A	5	-8.051	22.848	-4.363	1.00	0.00
ATOM 40	CA	SER A	5	-7.210	22.622	-3.193	1.00	0.00
ATOM 41	C	SER A	5	-6.533	23.916	-2.751	1.00	0.00
ATOM 42	O	SER A	5	-6.454	24.210	-1.559	1.00	0.00
ATOM 43	CB	SER A	5	-6.152	21.559	-3.498	1.00	0.00
ATOM 44	OG	SER A	5	-5.302	21.972	-4.554	1.00	0.00
ATOM 45	H	SER A	5	-7.651	22.800	-5.256	1.00	0.00
ATOM 46	HA	SER A	5	-7.842	22.269	-2.392	1.00	0.00
ATOM 47	1HB	SER A	5	-5.553	21.389	-2.616	1.00	0.00
ATOM 48	2HB	SER A	5	-6.642	20.640	-3.783	1.00	0.00
ATOM 49	HG	SER A	5	-4.447	21.546	-4.462	1.00	0.00
ATOM 50	N	SER A	6	-6.048	24.685	-3.721	1.00	0.00
ATOM 51	CA	SER A	6	-5.379	25.948	-3.432	1.00	0.00
ATOM 52	C	SER A	6	-5.077	26.710	-4.719	1.00	0.00
ATOM 53	O	SER A	6	-5.455	27.872	-4.868	1.00	0.00
ATOM 54	CB	SER A	6	-4.083	25.698	-2.658	1.00	0.00

ATOM 55	OG	SER A	6	-3.311	26.881	-2.559	1.00	0.00
ATOM 56	H	SER A	6	-6.142	24.396	-4.652	1.00	0.00
ATOM 57	HA	SER A	6	-6.042	26.543	-2.823	1.00	0.00
ATOM 58	1HB	SER A	6	-4.322	25.355	-1.662	1.00	0.00
ATOM 59	2HB	SER A	6	-3.502	24.944	-3.168	1.00	0.00
ATOM 60	HG	SER A	6	-3.779	27.525	-2.022	1.00	0.00
ATOM 61	N	GLY A	7	-4.391	26.047	-5.645	1.00	0.00
ATOM 62	CA	GLY A	7	-4.050	26.678	-6.907	1.00	0.00
ATOM 63	C	GLY A	7	-2.716	26.204	-7.449	1.00	0.00
ATOM 64	O	GLY A	7	-2.544	26.070	-8.661	1.00	0.00
ATOM 65	H	GLY A	7	-4.116	25.123	-5.471	1.00	0.00
ATOM 66	1HA	GLY A	7	-4.820	26.452	-7.630	1.00	0.00
ATOM 67	2HA	GLY A	7	-4.007	27.747	-6.763	1.00	0.00
ATOM 68	N	SER A	8	-1.770	25.950	-6.551	1.00	0.00
ATOM 69	CA	SER A	8	-0.445	25.488	-6.947	1.00	0.00
ATOM 70	C	SER A	8	-0.465	24.000	-7.284	1.00	0.00
ATOM 71	O	SER A	8	-1.217	23.229	-6.687	1.00	0.00
ATOM 72	CB	SER A	8	0.566	25.756	-5.831	1.00	0.00
ATOM 73	OG	SER A	8	1.872	25.365	-6.218	1.00	0.00
ATOM 74	H	SER A	8	-1.969	26.076	-5.600	1.00	0.00
ATOM 75	HA	SER A	8	-0.150	26.040	-7.827	1.00	0.00
ATOM 76	1HB	SER A	8	0.573	26.811	-5.601	1.00	0.00
ATOM 77	2HB	SER A	8	0.282	25.197	-4.950	1.00	0.00
ATOM 78	HG	SER A	8	1.878	24.426	-6.422	1.00	0.00
ATOM 79	N	SER A	9	0.365	23.605	-8.243	1.00	0.00
ATOM 80	CA	SER A	9	0.442	22.210	-8.660	1.00	0.00
ATOM 81	C	SER A	9	1.760	21.581	-8.216	1.00	0.00

ATOM 82	O	SER A	9	2.545	21.108	-9.040	1.00	0.00
ATOM 83	CB	SER A	9	0.293	22.100	-10.178	1.00	0.00
ATOM 84	OG	SER A	9	-0.507	23.152	-10.690	1.00	0.00
ATOM 85	H	SER A	9	0.939	24.267	-8.682	1.00	0.00
ATOM 86	HA	SER A	9	-0.372	21.678	-8.189	1.00	0.00
ATOM 87	1HB	SER A	9	1.268	22.151	-10.639	1.00	0.00
ATOM 88	2HB	SER A	9	-0.173	21.157	-10.426	1.00	0.00
ATOM 89	HG	SER A	9	-1.331	22.794	-11.026	1.00	0.00
ATOM 90	N	SER A	10	1.997	21.579	-6.909	1.00	0.00
ATOM 91	CA	SER A	10	3.220	21.009	-6.355	1.00	0.00
ATOM 92	C	SER A	10	2.940	19.672	-5.675	1.00	0.00
ATOM 93	O	SER A	10	3.622	19.293	-4.724	1.00	0.00
ATOM 94	CB	SER A	10	3.853	21.979	-5.355	1.00	0.00
ATOM 95	OG	SER A	10	4.694	22.912	-6.012	1.00	0.00
ATOM 96	H	SER A	10	1.335	21.969	-6.302	1.00	0.00
ATOM 97	HA	SER A	10	3.909	20.847	-7.171	1.00	0.00
ATOM 98	1HB	SER A	10	3.074	22.518	-4.838	1.00	0.00
ATOM 99	2HB	SER A	10	4.441	21.423	-4.641	1.00	0.00
ATOM 100	HG	SER A	10	4.287	23.782	-5.988	1.00	0.00
ATOM 101	N	SER A	11	1.932	18.960	-6.172	1.00	0.00
ATOM 102	CA	SER A	11	1.562	17.665	-5.612	1.00	0.00
ATOM 103	C	SER A	11	2.078	16.526	-6.487	1.00	0.00
ATOM 104	O	SER A	11	2.746	16.759	-7.494	1.00	0.00
ATOM 105	CB	SER A	11	0.042	17.565	-5.467	1.00	0.00
ATOM 106	OG	SER A	11	-0.409	18.258	-4.316	1.00	0.00
ATOM 107	H	SER A	11	1.425	19.315	-6.932	1.00	0.00
ATOM 108	HA	SER A	11	2.014	17.585	-4.634	1.00	0.00



ATOM 109	1HB	SER A	11	-0.430	17.993	-6.337	1.00	0.00
ATOM 110	2HB	SER A	11	-0.241	16.525	-5.380	1.00	0.00
ATOM 111	N	GLN A	12	1.761	15.296	-6.095	1.00	0.00
ATOM 112	CA	GLN A	12	2.194	14.121	-6.843	1.00	0.00
ATOM 113	C	GLN A	12	1.313	12.917	-6.522	1.00	0.00
ATOM 114	O	GLN A	12	1.052	12.620	-5.355	1.00	0.00
ATOM 115	CB	GLN A	12	3.655	13.797	-6.526	1.00	0.00
ATOM 116	CG	GLN A	12	4.001	13.923	-5.052	1.00	0.00
ATOM 117	CD	GLN A	12	4.866	15.134	-4.758	1.00	0.00
ATOM 118	OE1	GLN A	12	4.474	16.022	-4.000	1.00	0.00
ATOM 119	NE2	GLN A	12	6.049	15.175	-5.359	1.00	0.00
ATOM 120	H	GLN A	12	1.226	15.176	-5.283	1.00	0.00
ATOM 121	HA	GLN A	12	2.104	14.347	-7.895	1.00	0.00
ATOM 122	1HB	GLN A	12	3.861	12.783	-6.837	1.00	0.00
ATOM 123	2HB	GLN A	12	4.290	14.471	-7.083	1.00	0.00
ATOM 124	1HG	GLN A	12	3.086	14.009	-4.486	1.00	0.00
ATOM 125	2HG	GLN A	12	4.533	13.036	-4.742	1.00	0.00
ATOM 126	1HE2	GLN A	12	6.294	14.432	-5.949	1.00	0.00
ATOM 127	2HE2	GLN A	12	6.628	15.946	-5.186	1.00	0.00
ATOM 128	N	HIS A	13	0.859	12.229	-7.564	1.00	0.00
ATOM 129	CA	HIS A	13	0.009	11.056	-7.396	1.00	0.00
ATOM 130	C	HIS A	13	0.582	9.857	-8.145	1.00	0.00
ATOM 131	O	HIS A	13	0.692	9.876	-9.371	1.00	0.00
ATOM 132	CB	HIS A	13	-1.407	11.352	-7.895	1.00	0.00
ATOM 133	CG	HIS A	13	-2.270	12.040	-6.883	1.00	0.00
ATOM 134	ND1	HIS A	13	-3.619	11.784	-6.746	1.00	0.00
ATOM 135	CD2	HIS A	13	-1.973	12.981	-5.957	1.00	0.00

ATOM 136	CE1	HIS A	13	-4.112	12.537	-5.780	1.00	0.00
ATOM 137	NE2	HIS A	13	-3.134	13.273	-5.285	1.00	0.00
ATOM 138	H	HIS A	13	1.103	12.516	-8.469	1.00	0.00
ATOM 139	HA	HIS A	13	-0.031	10.823	-6.342	1.00	0.00
ATOM 140	1HB	HIS A	13	-1.349	11.987	-8.766	1.00	0.00
ATOM 141	2HB	HIS A	13	-1.886	10.422	-8.166	1.00	0.00
ATOM 142	HD1	HIS A	13	-4.137	11.144	-7.278	1.00	0.00
ATOM 143	HD2	HIS A	13	-1.002	13.421	-5.779	1.00	0.00
ATOM 144	HE1	HIS A	13	-5.140	12.549	-5.450	1.00	0.00
ATOM 145	HE2	HIS A	13	-3.243	13.982	-4.617	1.00	0.00
ATOM 146	N	PHE A	14	0.944	8.816	-7.402	1.00	0.00
ATOM 147	CA	PHE A	14	1.504	7.610	-8.003	1.00	0.00
ATOM 148	C	PHE A	14	0.510	6.454	-7.930	1.00	0.00
ATOM 149	O	PHE A	14	0.217	5.940	-6.851	1.00	0.00
ATOM 150	CB	PHE A	14	2.811	7.225	-7.307	1.00	0.00
ATOM 151	CG	PHE A	14	3.807	8.347	-7.237	1.00	0.00
ATOM 152	CD1	PHE A	14	3.931	9.114	-6.089	1.00	0.00
ATOM 153	CD2	PHE A	14	4.620	8.637	-8.322	1.00	0.00
ATOM 154	CE1	PHE A	14	4.846	10.146	-6.023	1.00	0.00
ATOM 155	CE2	PHE A	14	5.538	9.669	-8.261	1.00	0.00
ATOM 156	CZ	PHE A	14	5.651	10.424	-7.111	1.00	0.00
ATOM 157	H	PHE A	14	0.831	8.858	-6.429	1.00	0.00
ATOM 158	HA	PHE A	14	1.710	7.824	-9.041	1.00	0.00
ATOM 159	1HB	PHE A	14	2.595	6.910	-6.298	1.00	0.00
ATOM 160	2HB	PHE A	14	3.268	6.406	-7.844	1.00	0.00
ATOM 161	HD1	PHE A	14	3.302	8.898	-5.237	1.00	0.00
ATOM 162	HD2	PHE A	14	4.533	8.047	-9.222	1.00	0.00

ATOM 163	HE1	PHE A	14	4.933	10.736	-5.123	1.00	0.00
ATOM 164	HE2	PHE A	14	6.166	9.884	-9.114	1.00	0.00
ATOM 165	HZ	PHE A	14	6.367	11.231	-7.062	1.00	0.00
ATOM 166	N	ASN A	15	-0.010	6.054	-9.088	1.00	0.00
ATOM 167	CA	ASN A	15	-0.974	4.960	-9.162	1.00	0.00
ATOM 168	C	ASN A	15	-0.422	3.692	-8.518	1.00	0.00
ATOM 169	O	ASN A	15	0.514	3.084	-9.032	1.00	0.00
ATOM 170	CB	ASN A	15	-1.348	4.682	-10.619	1.00	0.00
ATOM 171	CG	ASN A	15	-2.779	4.204	-10.767	1.00	0.00
ATOM 172	OD1	ASN A	15	-3.724	4.967	-10.566	1.00	0.00
ATOM 173	ND2	ASN A	15	-2.946	2.935	-11.122	1.00	0.00
ATOM 174	H	ASN A	15	0.264	6.505	-9.913	1.00	0.00
ATOM 175	HA	ASN A	15	-1.859	5.263	-8.626	1.00	0.00
ATOM 176	1HB	ASN A	15	-1.229	5.588	-11.194	1.00	0.00
ATOM 177	2HB	ASN A	15	-0.691	3.921	-11.014	1.00	0.00
ATOM 178	1HD2	ASN A	15	-2.147	2.386	-11.266	1.00	0.00
ATOM 179	2HD2	ASN A	15	-3.861	2.601	-11.226	1.00	0.00
ATOM 180	N	LEU A	16	-1.010	3.302	-7.392	1.00	0.00
ATOM 181	CA	LEU A	16	-0.577	2.105	-6.680	1.00	0.00
ATOM 182	C	LEU A	16	-1.308	0.871	-7.198	1.00	0.00
ATOM 183	O	LEU A	16	-2.520	0.901	-7.416	1.00	0.00
ATOM 184	CB	LEU A	16	-0.824	2.266	-5.180	1.00	0.00
ATOM 185	CG	LEU A	16	-0.080	1.267	-4.292	1.00	0.00
ATOM 186	CD1	LEU A	16	1.426	1.449	-4.426	1.00	0.00
ATOM 187	CD2	LEU A	16	-0.514	1.419	-2.841	1.00	0.00
ATOM 188	H	LEU A	16	-1.754	3.829	-7.033	1.00	0.00
ATOM 189	HA	LEU A	16	0.480	1.982	-6.852	1.00	0.00

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ATOM 190	1HB	LEU	A	16	-0.527	3.263	-4.893	1.00	0.00
ATOM 191	2HB	LEU	A	16	-1.881	2.160	-4.995	1.00	0.00
ATOM 192	HG	LEU	A	16	-0.323	0.263	-4.610	1.00	0.00
ATOM 193	1HD1	LEU	A	16	1.888	0.490	-4.602	1.00	0.00
ATOM 194	2HD1	LEU	A	16	1.819	1.876	-3.515	1.00	0.00
ATOM 195	3HD1	LEU	A	16	1.638	2.110	-5.253	1.00	0.00
ATOM 196	1HD2	LEU	A	16	-1.489	1.881	-2.803	1.00	0.00
ATOM 197	2HD2	LEU	A	16	0.199	2.039	-2.316	1.00	0.00
ATOM 198	3HD2	LEU	A	16	-0.558	0.446	-2.375	1.00	0.00
ATOM 199	N	ASN	A	17	-0.566	-0.215	-7.397	1.00	0.00
ATOM 200	CA	ASN	A	17	-1.151	-1.455	-7.893	1.00	0.00
ATOM 201	C	ASN	A	17	-0.344	-2.669	-7.440	1.00	0.00
ATOM 202	O	ASN	A	17	0.888	-2.642	-7.425	1.00	0.00
ATOM 203	CB	ASN	A	17	-1.235	-1.427	-9.419	1.00	0.00
ATOM 204	CG	ASN	A	17	-2.364	-0.548	-9.919	1.00	0.00
ATOM 205	OD1	ASN	A	17	-2.210	0.666	-10.054	1.00	0.00
ATOM 206	ND2	ASN	A	17	-3.511	-1.159	-10.197	1.00	0.00
ATOM 207	H	ASN	A	17	0.395	-0.179	-7.208	1.00	0.00
ATOM 208	HA	ASN	A	17	-2.148	-1.534	-7.489	1.00	0.00
ATOM 209	1HB	ASN	A	17	-0.306	-1.048	-9.818	1.00	0.00
ATOM 210	2HB	ASN	A	17	-1.396	-2.431	-9.783	1.00	0.00
ATOM 211	1HD2	ASN	A	17	-3.562	-2.129	-10.065	1.00	0.00
ATOM 212	2HD2	ASN	A	17	-4.258	-0.615	-10.522	1.00	0.00
ATOM 213	N	PHE	A	18	-1.051	-3.736	-7.077	1.00	0.00
ATOM 214	CA	PHE	A	18	-0.415	-4.970	-6.629	1.00	0.00
ATOM 215	C	PHE	A	18	-1.465	-6.031	-6.320	1.00	0.00
ATOM 216	O	PHE	A	18	-2.290	-5.860	-5.423	1.00	0.00

ATOM 217	CB	PHE A	18	0.454	-4.712	-5.395	1.00	0.00
ATOM 218	CG	PHE A	18	-0.316	-4.218	-4.205	1.00	0.00
ATOM 219	CD1	PHE A	18	-0.778	-2.912	-4.156	1.00	0.00
ATOM 220	CD2	PHE A	18	-0.576	-5.058	-3.134	1.00	0.00
ATOM 221	CE1	PHE A	18	-1.485	-2.454	-3.062	1.00	0.00
ATOM 222	CE2	PHE A	18	-1.282	-4.605	-2.036	1.00	0.00
ATOM 223	CZ	PHE A	18	-1.738	-3.301	-2.000	1.00	0.00
ATOM 224	H	PHE A	18	-2.029	-3.692	-7.117	1.00	0.00
ATOM 225	HA	PHE A	18	0.214	-5.327	-7.432	1.00	0.00
ATOM 226	1HB	PHE A	18	0.945	-5.631	-5.113	1.00	0.00
ATOM 227	2HB	PHE A	18	1.202	-3.972	-5.640	1.00	0.00
ATOM 228	HD1	PHE A	18	-0.581	-2.250	-4.986	1.00	0.00
ATOM 229	HD2	PHE A	18	-0.219	-6.078	-3.161	1.00	0.00
ATOM 230	HE1	PHE A	18	-1.838	-1.433	-3.035	1.00	0.00
ATOM 231	HE2	PHE A	18	-1.479	-5.270	-1.208	1.00	0.00
ATOM 232	HZ	PHE A	18	-2.290	-2.945	-1.143	1.00	0.00
ATOM 233	N	THR A	19	-1.435	-7.123	-7.077	1.00	0.00
ATOM 234	CA	THR A	19	-2.392	-8.209	-6.895	1.00	0.00
ATOM 235	C	THR A	19	-2.154	-8.948	-5.582	1.00	0.00
ATOM 236	O	THR A	19	-1.022	-9.299	-5.249	1.00	0.00
ATOM 237	CB	THR A	19	-2.305	-9.190	-8.065	1.00	0.00
ATOM 238	OG1	THR A	19	-2.309	-8.499	-9.300	1.00	0.00
ATOM 239	CG2	THR A	19	-3.441	-10.189	-8.092	1.00	0.00
ATOM 240	H	THR A	19	-0.758	-7.197	-7.782	1.00	0.00
ATOM 241	HA	THR A	19	-3.381	-7.777	-6.876	1.00	0.00
ATOM 242	HB	THR A	19	-1.380	-9.744	-7.989	1.00	0.00
ATOM 243	HG1	THR A	19	-2.241	-9.129	-10.021	1.00	0.00

ATOM 244	1HG2	THR	A	19	-3.259	-10.920	-8.866	1.00	0.00
ATOM 245	2HG2	THR	A	19	-4.368	-9.673	-8.296	1.00	0.00
ATOM 246	3HG2	THR	A	19	-3.507	-10.686	-7.136	1.00	0.00
ATOM 247	N	ILE	A	20	-3.234	-9.188	-4.843	1.00	0.00
ATOM 248	CA	ILE	A	20	-3.152	-9.892	-3.569	1.00	0.00
ATOM 249	C	ILE	A	20	-3.689	-11.313	-3.700	1.00	0.00
ATOM 250	O	ILE	A	20	-4.893	-11.522	-3.847	1.00	0.00
ATOM 251	CB	ILE	A	20	-3.938	-9.157	-2.467	1.00	0.00
ATOM 252	CG1	ILE	A	20	-3.552	-7.678	-2.434	1.00	0.00
ATOM 253	CG2	ILE	A	20	-3.690	-9.807	-1.113	1.00	0.00
ATOM 254	CD1	ILE	A	20	-4.546	-6.809	-1.696	1.00	0.00
ATOM 255	H	ILE	A	20	-4.109	-8.887	-5.167	1.00	0.00
ATOM 256	HA	ILE	A	20	-2.113	-9.934	-3.276	1.00	0.00
ATOM 257	HB	ILE	A	20	-4.992	-9.242	-2.691	1.00	0.00
ATOM 258	1HG1	ILE	A	20	-2.594	-7.574	-1.945	1.00	0.00
ATOM 259	2HG1	ILE	A	20	-3.474	-7.310	-3.447	1.00	0.00
ATOM 260	1HG2	ILE	A	20	-4.290	-10.701	-1.028	1.00	0.00
ATOM 261	2HG2	ILE	A	20	-3.957	-9.116	-0.328	1.00	0.00
ATOM 262	3HG2	ILE	A	20	-2.644	-10.065	-1.025	1.00	0.00
ATOM 263	1HD1	ILE	A	20	-4.177	-5.794	-1.654	1.00	0.00
ATOM 264	2HD1	ILE	A	20	-4.680	-7.186	-0.693	1.00	0.00
ATOM 265	3HD1	ILE	A	20	-5.493	-6.824	-2.216	1.00	0.00
ATOM 266	N	THR	A	21	-2.788	-12.290	-3.649	1.00	0.00
ATOM 267	CA	THR	A	21	-3.171	-13.693	-3.767	1.00	0.00
ATOM 268	C	THR	A	21	-3.969	-14.152	-2.550	1.00	0.00
ATOM 269	O	THR	A	21	-4.825	-15.031	-2.654	1.00	0.00
ATOM 270	CB	THR	A	21	-1.929	-14.569	-3.936	1.00	0.00

ATOM 271	OG1	THR	A	21	-1.174	-14.604	-2.738	1.00	0.00
ATOM 272	CG2	THR	A	21	-1.012	-14.097	-5.043	1.00	0.00
ATOM 273	H	THR	A	21	-1.842	-12.061	-3.533	1.00	0.00
ATOM 274	HA	THR	A	21	-3.790	-13.792	-4.646	1.00	0.00
ATOM 275	HB	THR	A	21	-2.241	-15.576	-4.171	1.00	0.00
ATOM 276	HG1	THR	A	21	-0.884	-13.716	-2.515	1.00	0.00
ATOM 277	1HG2	THR	A	21	-0.130	-13.646	-4.613	1.00	0.00
ATOM 278	2HG2	THR	A	21	-1.527	-13.371	-5.654	1.00	0.00
ATOM 279	3HG2	THR	A	21	-0.722	-14.941	-5.654	1.00	0.00
ATOM 280	N	ASN	A	22	-3.684	-13.554	-1.398	1.00	0.00
ATOM 281	CA	ASN	A	22	-4.377	-13.908	-0.162	1.00	0.00
ATOM 282	C	ASN	A	22	-5.755	-13.249	-0.084	1.00	0.00
ATOM 283	O	ASN	A	22	-6.503	-13.476	0.867	1.00	0.00
ATOM 284	CB	ASN	A	22	-3.534	-13.504	1.050	1.00	0.00
ATOM 285	CG	ASN	A	22	-3.265	-14.670	1.981	1.00	0.00
ATOM 286	OD1	ASN	A	22	-3.088	-15.805	1.538	1.00	0.00
ATOM 287	ND2	ASN	A	22	-3.233	-14.395	3.280	1.00	0.00
ATOM 288	H	ASN	A	22	-2.991	-12.862	-1.376	1.00	0.00
ATOM 289	HA	ASN	A	22	-4.506	-14.980	-0.154	1.00	0.00
ATOM 290	1HB	ASN	A	22	-2.587	-13.115	0.708	1.00	0.00
ATOM 291	2HB	ASN	A	22	-4.053	-12.736	1.605	1.00	0.00
ATOM 292	1HD2	ASN	A	22	-3.382	-13.468	3.561	1.00	0.00
ATOM 293	2HD2	ASN	A	22	-3.060	-15.130	3.905	1.00	0.00
ATOM 294	N	LEU	A	23	-6.086	-12.433	-1.081	1.00	0.00
ATOM 295	CA	LEU	A	23	-7.373	-11.749	-1.108	1.00	0.00
ATOM 296	C	LEU	A	23	-8.325	-12.416	-2.098	1.00	0.00
ATOM 297	O	LEU	A	23	-8.356	-12.062	-3.277	1.00	0.00

ATOM 298	CB	LEU A	23	-7.184	-10.277	-1.480	1.00	0.00
ATOM 299	CG	LEU A	23	-8.219	-9.322	-0.885	1.00	0.00
ATOM 300	CD1	LEU A	23	-9.622	-9.714	-1.323	1.00	0.00
ATOM 301	CD2	LEU A	23	-8.118	-9.306	0.633	1.00	0.00
ATOM 302	H	LEU A	23	-5.453	-12.285	-1.813	1.00	0.00
ATOM 303	HA	LEU A	23	-7.801	-11.807	-0.119	1.00	0.00
ATOM 304	1HB	LEU A	23	-6.205	-9.967	-1.146	1.00	0.00
ATOM 305	2HB	LEU A	23	-7.225	-10.189	-2.555	1.00	0.00
ATOM 306	HG	LEU A	23	-8.025	-8.321	-1.244	1.00	0.00
ATOM 307	1HD1	LEU A	23	-9.578	-10.176	-2.298	1.00	0.00
ATOM 308	2HD1	LEU A	23	-10.245	-8.834	-1.369	1.00	0.00
ATOM 309	3HD1	LEU A	23	-10.039	-10.412	-0.612	1.00	0.00
ATOM 310	1HD2	LEU A	23	-8.663	-8.460	1.022	1.00	0.00
ATOM 311	2HD2	LEU A	23	-7.080	-9.231	0.924	1.00	0.00
ATOM 312	3HD2	LEU A	23	-8.538	-10.218	1.032	1.00	0.00
ATOM 313	N	PRO A	24	-9.121	-13.395	-1.631	1.00	0.00
ATOM 314	CA	PRO A	24	-10.077	-14.109	-2.485	1.00	0.00
ATOM 315	C	PRO A	24	-11.211	-13.208	-2.961	1.00	0.00
ATOM 316	O	PRO A	24	-12.000	-12.709	-2.159	1.00	0.00
ATOM 317	CB	PRO A	24	-10.619	-15.214	-1.574	1.00	0.00
ATOM 318	CG	PRO A	24	-10.408	-14.706	-0.190	1.00	0.00
ATOM 319	CD	PRO A	24	-9.153	-13.880	-0.240	1.00	0.00
ATOM 320	HA	PRO A	24	-9.589	-14.551	-3.341	1.00	0.00
ATOM 321	1HB	PRO A	24	-11.667	-15.374	-1.783	1.00	0.00
ATOM 322	2HB	PRO A	24	-10.069	-16.127	-1.746	1.00	0.00
ATOM 323	1HG	PRO A	24	-11.248	-14.095	0.108	1.00	0.00
ATOM 324	2HG	PRO A	24	-10.285	-15.535	0.491	1.00	0.00



ATOM 325	1HD	PRO	A	24	-9.216	-13.056	0.456	1.00	0.00
ATOM 326	2HD	PRO	A	24	-8.290	-14.493	-0.025	1.00	0.00
ATOM 327	N	TYR	A	25	-11.286	-13.003	-4.272	1.00	0.00
ATOM 328	CA	TYR	A	25	-12.324	-12.162	-4.856	1.00	0.00
ATOM 329	C	TYR	A	25	-13.640	-12.924	-4.977	1.00	0.00
ATOM 330	O	TYR	A	25	-13.682	-14.027	-5.521	1.00	0.00
ATOM 331	CB	TYR	A	25	-11.886	-11.656	-6.231	1.00	0.00
ATOM 332	CG	TYR	A	25	-12.490	-10.322	-6.609	1.00	0.00
ATOM 333	CD1	TYR	A	25	-11.683	-9.243	-6.944	1.00	0.00
ATOM 334	CD2	TYR	A	25	-13.867	-10.143	-6.628	1.00	0.00
ATOM 335	CE1	TYR	A	25	-12.230	-8.022	-7.287	1.00	0.00
ATOM 336	CE2	TYR	A	25	-14.423	-8.924	-6.972	1.00	0.00
ATOM 337	CZ	TYR	A	25	-13.601	-7.868	-7.300	1.00	0.00
ATOM 338	OH	TYR	A	25	-14.150	-6.654	-7.643	1.00	0.00
ATOM 339	H	TYR	A	25	-10.628	-13.428	-4.860	1.00	0.00
ATOM 340	HA	TYR	A	25	-12.470	-11.316	-4.202	1.00	0.00
ATOM 341	1HB	TYR	A	25	-10.812	-11.548	-6.242	1.00	0.00
ATOM 342	2HB	TYR	A	25	-12.177	-12.377	-6.982	1.00	0.00
ATOM 343	HD1	TYR	A	25	-10.609	-9.366	-6.932	1.00	0.00
ATOM 344	HD2	TYR	A	25	-14.508	-10.972	-6.369	1.00	0.00
ATOM 345	HE1	TYR	A	25	-11.586	-7.194	-7.545	1.00	0.00
ATOM 346	HE2	TYR	A	25	-15.496	-8.805	-6.982	1.00	0.00
ATOM 347	HH	TYR	A	25	-14.936	-6.796	-8.174	1.00	0.00
ATOM 348	N	SER	A	26	-14.711	-12.328	-4.466	1.00	0.00
ATOM 349	CA	SER	A	26	-16.029	-12.949	-4.517	1.00	0.00
ATOM 350	C	SER	A	26	-17.093	-11.934	-4.923	1.00	0.00
ATOM 351	O	SER	A	26	-16.793	-10.760	-5.141	1.00	0.00

ATOM 352	CB	SER A	26	-16.382	-13.559	-3.159	1.00	0.00
ATOM 353	OG	SER A	26	-15.327	-14.373	-2.676	1.00	0.00
ATOM 354	H	SER A	26	-14.614	-11.448	-4.045	1.00	0.00
ATOM 355	HA	SER A	26	-15.998	-13.734	-5.257	1.00	0.00
ATOM 356	1HB	SER A	26	-16.563	-12.767	-2.448	1.00	0.00
ATOM 357	2HB	SER A	26	-17.271	-14.164	-3.259	1.00	0.00
ATOM 358	HG	SER A	26	-14.603	-13.817	-2.379	1.00	0.00
ATOM 359	N	GLN A	27	-18.336	-12.393	-5.022	1.00	0.00
ATOM 360	CA	GLN A	27	-19.444	-11.525	-5.401	1.00	0.00
ATOM 361	C	GLN A	27	-19.597	-10.373	-4.412	1.00	0.00
ATOM 362	O	GLN A	27	-20.043	-9.285	-4.776	1.00	0.00
ATOM 363	CB	GLN A	27	-20.745	-12.326	-5.476	1.00	0.00
ATOM 364	CG	GLN A	27	-21.051	-12.859	-6.866	1.00	0.00
ATOM 365	CD	GLN A	27	-22.448	-13.439	-6.973	1.00	0.00
ATOM 366	OE1	GLN A	27	-23.309	-12.893	-7.662	1.00	0.00
ATOM 367	NE2	GLN A	27	-22.680	-14.552	-6.287	1.00	0.00
ATOM 368	H	GLN A	27	-18.512	-13.339	-4.834	1.00	0.00
ATOM 369	HA	GLN A	27	-19.226	-11.118	-6.377	1.00	0.00
ATOM 370	1HB	GLN A	27	-20.678	-13.164	-4.799	1.00	0.00
ATOM 371	2HB	GLN A	27	-21.564	-11.692	-5.169	1.00	0.00
ATOM 372	1HG	GLN A	27	-20.959	-12.051	-7.577	1.00	0.00
ATOM 373	2HG	GLN A	27	-20.337	-13.633	-7.106	1.00	0.00
ATOM 374	1HE2	GLN A	27	-21.947	-14.931	-5.758	1.00	0.00
ATOM 375	2HE2	GLN A	27	-23.575	-14.949	-6.338	1.00	0.00
ATOM 376	N	ASP A	28	-19.225	-10.620	-3.160	1.00	0.00
ATOM 377	CA	ASP A	28	-19.323	-9.603	-2.119	1.00	0.00
ATOM 378	C	ASP A	28	-18.399	-8.428	-2.421	1.00	0.00

ATOM 379	O	ASP	A	28	-18.797	-7.268	-2.314	1.00	0.00
ATOM 380	CB	ASP	A	28	-18.977	-10.204	-0.756	1.00	0.00
ATOM 381	CG	ASP	A	28	-19.851	-11.393	-0.409	1.00	0.00
ATOM 382	OD1	ASP	A	28	-20.937	-11.526	-1.010	1.00	0.00
ATOM 383	OD2	ASP	A	28	-19.449	-12.190	0.464	1.00	0.00
ATOM 384	H	ASP	A	28	-18.878	-11.507	-2.930	1.00	0.00
ATOM 385	HA	ASP	A	28	-20.342	-9.248	-2.099	1.00	0.00
ATOM 386	1HB	ASP	A	28	-17.947	-10.527	-0.763	1.00	0.00
ATOM 387	2HB	ASP	A	28	-19.107	-9.449	0.006	1.00	0.00
ATOM 388	N	ILE	A	29	-17.164	-8.735	-2.800	1.00	0.00
ATOM 389	CA	ILE	A	29	-16.182	-7.705	-3.118	1.00	0.00
ATOM 390	C	ILE	A	29	-16.565	-6.942	-4.386	1.00	0.00
ATOM 391	O	ILE	A	29	-15.997	-5.890	-4.681	1.00	0.00
ATOM 392	CB	ILE	A	29	-14.774	-8.306	-3.296	1.00	0.00
ATOM 393	CG1	ILE	A	29	-14.426	-9.208	-2.111	1.00	0.00
ATOM 394	CG2	ILE	A	29	-13.741	-7.198	-3.446	1.00	0.00
ATOM 395	CD1	ILE	A	29	-14.510	-8.509	-0.771	1.00	0.00
ATOM 396	H	ILE	A	29	-16.905	-9.678	-2.868	1.00	0.00
ATOM 397	HA	ILE	A	29	-16.151	-7.011	-2.291	1.00	0.00
ATOM 398	HB	ILE	A	29	-14.770	-8.893	-4.201	1.00	0.00
ATOM 399	1HG1	ILE	A	29	-15.110	-10.044	-2.090	1.00	0.00
ATOM 400	2HG1	ILE	A	29	-13.418	-9.576	-2.231	1.00	0.00
ATOM 401	1HG2	ILE	A	29	-12.792	-7.536	-3.057	1.00	0.00
ATOM 402	2HG2	ILE	A	29	-14.065	-6.326	-2.898	1.00	0.00
ATOM 403	3HG2	ILE	A	29	-13.632	-6.947	-4.490	1.00	0.00
ATOM 404	1HD1	ILE	A	29	-14.122	-9.159	0.000	1.00	0.00
ATOM 405	2HD1	ILE	A	29	-15.541	-8.268	-0.553	1.00	0.00

ATOM 406	3HD1	ILE	A	29	-13.927	-7.600	-0.802	1.00	0.00
ATOM 407	N	ALA	A	30	-17.528	-7.476	-5.135	1.00	0.00
ATOM 408	CA	ALA	A	30	-17.977	-6.839	-6.366	1.00	0.00
ATOM 409	C	ALA	A	30	-19.133	-5.877	-6.100	1.00	0.00
ATOM 410	O	ALA	A	30	-19.356	-4.936	-6.862	1.00	0.00
ATOM 411	CB	ALA	A	30	-18.391	-7.891	-7.383	1.00	0.00
ATOM 412	H	ALA	A	30	-17.945	-8.316	-4.853	1.00	0.00
ATOM 413	HA	ALA	A	30	-17.147	-6.282	-6.776	1.00	0.00
ATOM 414	1HB	ALA	A	30	-18.397	-7.454	-8.371	1.00	0.00
ATOM 415	2HB	ALA	A	30	-19.379	-8.254	-7.145	1.00	0.00
ATOM 416	3HB	ALA	A	30	-17.689	-8.712	-7.357	1.00	0.00
ATOM 417	N	GLN	A	31	-19.865	-6.117	-5.015	1.00	0.00
ATOM 418	CA	GLN	A	31	-20.996	-5.271	-4.654	1.00	0.00
ATOM 419	C	GLN	A	31	-20.818	-4.688	-3.251	1.00	0.00
ATOM 420	O	GLN	A	31	-20.740	-5.429	-2.271	1.00	0.00
ATOM 421	CB	GLN	A	31	-22.298	-6.072	-4.721	1.00	0.00
ATOM 422	CG	GLN	A	31	-22.799	-6.300	-6.138	1.00	0.00
ATOM 423	CD	GLN	A	31	-24.310	-6.234	-6.238	1.00	0.00
ATOM 424	OE1	GLN	A	31	-24.969	-5.568	-5.438	1.00	0.00
ATOM 425	NE2	GLN	A	31	-24.869	-6.927	-7.224	1.00	0.00
ATOM 426	H	GLN	A	31	-19.640	-6.882	-4.446	1.00	0.00
ATOM 427	HA	GLN	A	31	-21.046	-4.462	-5.367	1.00	0.00
ATOM 428	1HB	GLN	A	31	-22.138	-7.034	-4.259	1.00	0.00
ATOM 429	2HB	GLN	A	31	-23.063	-5.541	-4.172	1.00	0.00
ATOM 430	1HG	GLN	A	31	-22.377	-5.543	-6.782	1.00	0.00
ATOM 431	2HG	GLN	A	31	-22.473	-7.275	-6.468	1.00	0.00
ATOM 432	1HE2	GLN	A	31	-24.282	-7.435	-7.823	1.00	0.00

ATOM 433	2HE2	GLN	A	31	-25.844	-6.902	-7.312	1.00	0.00
ATOM 434	N	PRO	A	32	-20.753	-3.348	-3.131	1.00	0.00
ATOM 435	CA	PRO	A	32	-20.585	-2.679	-1.835	1.00	0.00
ATOM 436	C	PRO	A	32	-21.678	-3.056	-0.839	1.00	0.00
ATOM 437	O	PRO	A	32	-21.505	-2.908	0.371	1.00	0.00
ATOM 438	CB	PRO	A	32	-20.669	-1.189	-2.180	1.00	0.00
ATOM 439	CG	PRO	A	32	-20.328	-1.110	-3.627	1.00	0.00
ATOM 440	CD	PRO	A	32	-20.837	-2.382	-4.241	1.00	0.00
ATOM 441	HA	PRO	A	32	-19.620	-2.897	-1.403	1.00	0.00
ATOM 442	1HB	PRO	A	32	-21.671	-0.830	-1.989	1.00	0.00
ATOM 443	2HB	PRO	A	32	-19.963	-0.637	-1.578	1.00	0.00
ATOM 444	1HG	PRO	A	32	-20.816	-0.255	-4.073	1.00	0.00
ATOM 445	2HG	PRO	A	32	-19.257	-1.037	-3.749	1.00	0.00
ATOM 446	1HD	PRO	A	32	-21.859	-2.260	-4.571	1.00	0.00
ATOM 447	2HD	PRO	A	32	-20.206	-2.684	-5.064	1.00	0.00
ATOM 448	N	SER	A	33	-22.805	-3.539	-1.354	1.00	0.00
ATOM 449	CA	SER	A	33	-23.928	-3.933	-0.508	1.00	0.00
ATOM 450	C	SER	A	33	-23.490	-4.926	0.565	1.00	0.00
ATOM 451	O	SER	A	33	-24.073	-4.981	1.649	1.00	0.00
ATOM 452	CB	SER	A	33	-25.041	-4.545	-1.360	1.00	0.00
ATOM 453	OG	SER	A	33	-26.240	-4.675	-0.616	1.00	0.00
ATOM 454	H	SER	A	33	-22.885	-3.632	-2.326	1.00	0.00
ATOM 455	HA	SER	A	33	-24.306	-3.045	-0.026	1.00	0.00
ATOM 456	1HB	SER	A	33	-25.230	-3.911	-2.212	1.00	0.00
ATOM 457	2HB	SER	A	33	-24.734	-5.523	-1.700	1.00	0.00
ATOM 458	HG	SER	A	33	-26.992	-4.490	-1.183	1.00	0.00
ATOM 459	N	THR	A	34	-22.462	-5.712	0.259	1.00	0.00

ATOM 460	CA	THR A	34	-21.952	-6.703	1.199	1.00	0.00
ATOM 461	C	THR A	34	-20.967	-6.071	2.179	1.00	0.00
ATOM 462	O	THR A	34	-20.491	-4.957	1.965	1.00	0.00
ATOM 463	CB	THR A	34	-21.276	-7.851	0.449	1.00	0.00
ATOM 464	OG1	THR A	34	-20.108	-7.399	-0.213	1.00	0.00
ATOM 465	CG2	THR A	34	-22.171	-8.496	-0.588	1.00	0.00
ATOM 466	H	THR A	34	-22.038	-5.624	-0.620	1.00	0.00
ATOM 467	HA	THR A	34	-22.792	-7.094	1.755	1.00	0.00
ATOM 468	HB	THR A	34	-20.990	-8.613	1.158	1.00	0.00
ATOM 469	HG1	THR A	34	-19.355	-7.477	0.376	1.00	0.00
ATOM 470	1HG2	THR A	34	-21.945	-9.549	-0.655	1.00	0.00
ATOM 471	2HG2	THR A	34	-22.005	-8.030	-1.548	1.00	0.00
ATOM 472	3HG2	THR A	34	-23.204	-8.367	-0.300	1.00	0.00
ATOM 473	N	THR A	35	-20.669	-6.793	3.255	1.00	0.00
ATOM 474	CA	THR A	35	-19.743	-6.305	4.271	1.00	0.00
ATOM 475	C	THR A	35	-18.296	-6.572	3.867	1.00	0.00
ATOM 476	O	THR A	35	-17.393	-5.815	4.224	1.00	0.00
ATOM 477	CB	THR A	35	-20.037	-6.968	5.618	1.00	0.00
ATOM 478	OG1	THR A	35	-21.424	-6.925	5.905	1.00	0.00
ATOM 479	CG2	THR A	35	-19.308	-6.323	6.777	1.00	0.00
ATOM 480	H	THR A	35	-21.083	-7.673	3.370	1.00	0.00
ATOM 481	HA	THR A	35	-19.887	-5.240	4.367	1.00	0.00
ATOM 482	HB	THR A	35	-19.733	-8.005	5.571	1.00	0.00
ATOM 483	HG1	THR A	35	-21.824	-7.769	5.684	1.00	0.00
ATOM 484	1HG2	THR A	35	-19.927	-6.367	7.660	1.00	0.00
ATOM 485	2HG2	THR A	35	-19.093	-5.293	6.537	1.00	0.00
ATOM 486	3HG2	THR A	35	-18.384	-6.851	6.959	1.00	0.00

ATOM 487	N	LYS A	36	-18.083	-7.652	3.123	1.00	0.00
ATOM 488	CA	LYS A	36	-16.745	-8.019	2.672	1.00	0.00
ATOM 489	C	LYS A	36	-16.114	-6.896	1.854	1.00	0.00
ATOM 490	O	LYS A	36	-14.891	-6.753	1.818	1.00	0.00
ATOM 491	CB	LYS A	36	-16.796	-9.303	1.842	1.00	0.00
ATOM 492	CG	LYS A	36	-15.602	-10.217	2.062	1.00	0.00
ATOM 493	CD	LYS A	36	-15.670	-11.447	1.173	1.00	0.00
ATOM 494	CE	LYS A	36	-14.491	-12.375	1.413	1.00	0.00
ATOM 495	NZ	LYS A	36	-14.234	-13.263	0.246	1.00	0.00
ATOM 496	H	LYS A	36	-18.843	-8.218	2.871	1.00	0.00
ATOM 497	HA	LYS A	36	-16.138	-8.193	3.547	1.00	0.00
ATOM 498	1HB	LYS A	36	-17.692	-9.848	2.100	1.00	0.00
ATOM 499	2HB	LYS A	36	-16.834	-9.041	0.795	1.00	0.00
ATOM 500	1HG	LYS A	36	-14.699	-9.672	1.837	1.00	0.00
ATOM 501	2HG	LYS A	36	-15.589	-10.532	3.096	1.00	0.00
ATOM 502	1HD	LYS A	36	-16.585	-11.982	1.384	1.00	0.00
ATOM 503	2HD	LYS A	36	-15.666	-11.133	0.138	1.00	0.00
ATOM 504	1HE	LYS A	36	-13.611	-11.777	1.599	1.00	0.00
ATOM 505	2HE	LYS A	36	-14.699	-12.985	2.280	1.00	0.00
ATOM 506	1HZ	LYS A	36	-14.629	-12.840	-0.619	1.00	0.00
ATOM 507	2HZ	LYS A	36	-14.677	-14.192	0.398	1.00	0.00
ATOM 508	3HZ	LYS A	36	-13.210	-13.396	0.116	1.00	0.00
ATOM 509	N	TYR A	37	-16.953	-6.100	1.200	1.00	0.00
ATOM 510	CA	TYR A	37	-16.474	-4.990	0.384	1.00	0.00
ATOM 511	C	TYR A	37	-16.013	-3.830	1.263	1.00	0.00
ATOM 512	O	TYR A	37	-15.044	-3.142	0.941	1.00	0.00
ATOM 513	CB	TYR A	37	-17.574	-4.519	-0.570	1.00	0.00

ATOM 514	CG	TYR A	37	-17.185	-3.319	-1.405	1.00	0.00
ATOM 515	CD1	TYR A	37	-17.240	-2.035	-0.877	1.00	0.00
ATOM 516	CD2	TYR A	37	-16.764	-3.471	-2.719	1.00	0.00
ATOM 517	CE1	TYR A	37	-16.887	-0.936	-1.636	1.00	0.00
ATOM 518	CE2	TYR A	37	-16.409	-2.377	-3.486	1.00	0.00
ATOM 519	CZ	TYR A	37	-16.472	-1.112	-2.940	1.00	0.00
ATOM 520	OH	TYR A	37	-16.119	-0.021	-3.699	1.00	0.00
ATOM 521	H	TYR A	37	-17.917	-6.263	1.267	1.00	0.00
ATOM 522	HA	TYR A	37	-15.634	-5.343	-0.194	1.00	0.00
ATOM 523	1HB	TYR A	37	-17.823	-5.325	-1.245	1.00	0.00
ATOM 524	2HB	TYR A	37	-18.450	-4.255	0.005	1.00	0.00
ATOM 525	HD1	TYR A	37	-17.566	-1.901	0.144	1.00	0.00
ATOM 526	HD2	TYR A	37	-16.717	-4.462	-3.144	1.00	0.00
ATOM 527	HE1	TYR A	37	-16.936	0.054	-1.209	1.00	0.00
ATOM 528	HE2	TYR A	37	-16.084	-2.515	-4.505	1.00	0.00
ATOM 529	HH	TYR A	37	-15.353	-0.238	-4.237	1.00	0.00
ATOM 530	N	GLN A	38	-16.713	-3.618	2.372	1.00	0.00
ATOM 531	CA	GLN A	38	-16.375	-2.541	3.295	1.00	0.00
ATOM 532	C	GLN A	38	-15.244	-2.959	4.231	1.00	0.00
ATOM 533	O	GLN A	38	-14.368	-2.159	4.557	1.00	0.00
ATOM 534	CB	GLN A	38	-17.604	-2.136	4.111	1.00	0.00
ATOM 535	CG	GLN A	38	-18.718	-1.529	3.273	1.00	0.00
ATOM 536	CD	GLN A	38	-20.084	-2.076	3.634	1.00	0.00
ATOM 537	OE1	GLN A	38	-20.248	-2.747	4.653	1.00	0.00
ATOM 538	NE2	GLN A	38	-21.076	-1.792	2.798	1.00	0.00
ATOM 539	H	GLN A	38	-17.475	-4.200	2.575	1.00	0.00
ATOM 540	HA	GLN A	38	-16.047	-1.695	2.710	1.00	0.00



ATOM 541	1HB	GLN A	38	-17.994	-3.010	4.610	1.00	0.00
ATOM 542	2HB	GLN A	38	-17.305	-1.411	4.853	1.00	0.00
ATOM 543	1HG	GLN A	38	-18.723	-0.460	3.425	1.00	0.00
ATOM 544	2HG	GLN A	38	-18.524	-1.742	2.231	1.00	0.00
ATOM 545	1HE2	GLN A	38	-20.872	-1.252	2.005	1.00	0.00
ATOM 546	2HE2	GLN A	38	-21.971	-2.133	3.007	1.00	0.00
ATOM 547	N	GLN A	39	-15.274	-4.216	4.660	1.00	0.00
ATOM 548	CA	GLN A	39	-14.252	-4.740	5.560	1.00	0.00
ATOM 549	C	GLN A	39	-12.916	-4.888	4.841	1.00	0.00
ATOM 550	O	GLN A	39	-11.876	-4.468	5.350	1.00	0.00
ATOM 551	CB	GLN A	39	-14.690	-6.090	6.131	1.00	0.00
ATOM 552	CG	GLN A	39	-15.484	-5.976	7.422	1.00	0.00
ATOM 553	CD	GLN A	39	-14.814	-6.685	8.584	1.00	0.00
ATOM 554	OE1	GLN A	39	-13.590	-6.799	8.635	1.00	0.00
ATOM 555	NE2	GLN A	39	-15.617	-7.166	9.526	1.00	0.00
ATOM 556	H	GLN A	39	-15.999	-4.806	4.366	1.00	0.00
ATOM 557	HA	GLN A	39	-14.135	-4.038	6.372	1.00	0.00
ATOM 558	1HB	GLN A	39	-15.304	-6.594	5.399	1.00	0.00
ATOM 559	2HB	GLN A	39	-13.811	-6.688	6.323	1.00	0.00
ATOM 560	1HG	GLN A	39	-15.591	-4.932	7.673	1.00	0.00
ATOM 561	2HG	GLN A	39	-16.461	-6.412	7.268	1.00	0.00
ATOM 562	1HE2	GLN A	39	-16.583	-7.039	9.419	1.00	0.00
ATOM 563	2HE2	GLN A	39	-15.212	-7.629	10.288	1.00	0.00
ATOM 564	N	THR A	40	-12.949	-5.489	3.656	1.00	0.00
ATOM 565	CA	THR A	40	-11.739	-5.694	2.868	1.00	0.00
ATOM 566	C	THR A	40	-11.137	-4.360	2.435	1.00	0.00
ATOM 567	O	THR A	40	-9.930	-4.147	2.550	1.00	0.00

ATOM 568	CB	THR A	40	-12.044	-6.550	1.637	1.00	0.00
ATOM 569	OG1	THR A	40	-12.624	-7.785	2.018	1.00	0.00
ATOM 570	CG2	THR A	40	-10.820	-6.855	0.802	1.00	0.00
ATOM 571	H	THR A	40	-13.807	-5.804	3.304	1.00	0.00
ATOM 572	HA	THR A	40	-11.024	-6.213	3.488	1.00	0.00
ATOM 573	HB	THR A	40	-12.750	-6.023	1.011	1.00	0.00
ATOM 574	HG1	THR A	40	-12.804	-8.310	1.234	1.00	0.00
ATOM 575	1HG2	THR A	40	-10.583	-7.905	0.881	1.00	0.00
ATOM 576	2HG2	THR A	40	-9.986	-6.269	1.159	1.00	0.00
ATOM 577	3HG2	THR A	40	-11.018	-6.607	-0.230	1.00	0.00
ATOM 578	N	LYS A	41	-11.985	-3.467	1.936	1.00	0.00
ATOM 579	CA	LYS A	41	-11.536	-2.154	1.486	1.00	0.00
ATOM 580	C	LYS A	41	-10.859	-1.389	2.618	1.00	0.00
ATOM 581	O	LYS A	41	-9.806	-0.780	2.425	1.00	0.00
ATOM 582	CB	LYS A	41	-12.716	-1.346	0.944	1.00	0.00
ATOM 583	CG	LYS A	41	-12.302	-0.071	0.226	1.00	0.00
ATOM 584	CD	LYS A	41	-13.508	0.685	-0.309	1.00	0.00
ATOM 585	CE	LYS A	41	-13.250	1.236	-1.703	1.00	0.00
ATOM 586	NZ	LYS A	41	-12.998	2.703	-1.682	1.00	0.00
ATOM 587	H	LYS A	41	-12.936	-3.695	1.870	1.00	0.00
ATOM 588	HA	LYS A	41	-10.821	-2.305	0.691	1.00	0.00
ATOM 589	1HB	LYS A	41	-13.270	-1.961	0.249	1.00	0.00
ATOM 590	2HB	LYS A	41	-13.362	-1.077	1.766	1.00	0.00
ATOM 591	1HG	LYS A	41	-11.769	0.563	0.918	1.00	0.00
ATOM 592	2HG	LYS A	41	-11.654	-0.330	-0.599	1.00	0.00
ATOM 593	1HD	LYS A	41	-14.353	0.015	-0.348	1.00	0.00
ATOM 594	2HD	LYS A	41	-13.729	1.507	0.358	1.00	0.00

ATOM 595	1HE	LYS	A	41	-12.387	0.737	-2.119	1.00	0.00
ATOM 596	2HE	LYS	A	41	-14.113	1.035	-2.319	1.00	0.00
ATOM 597	1HZ	LYS	A	41	-12.353	2.945	-0.903	1.00	0.00
ATOM 598	2HZ	LYS	A	41	-13.893	3.217	-1.549	1.00	0.00
ATOM 599	3HZ	LYS	A	41	-12.569	3.004	-2.580	1.00	0.00
ATOM 600	N	ARG	A	42	-11.469	-1.423	3.798	1.00	0.00
ATOM 601	CA	ARG	A	42	-10.924	-0.731	4.960	1.00	0.00
ATOM 602	C	ARG	A	42	-9.673	-1.435	5.477	1.00	0.00
ATOM 603	O	ARG	A	42	-8.774	-0.799	6.026	1.00	0.00
ATOM 604	CB	ARG	A	42	-11.975	-0.650	6.070	1.00	0.00
ATOM 605	CG	ARG	A	42	-11.971	0.675	6.814	1.00	0.00
ATOM 606	CD	ARG	A	42	-12.923	1.674	6.177	1.00	0.00
ATOM 607	NE	ARG	A	42	-14.321	1.287	6.352	1.00	0.00
ATOM 608	CZ	ARG	A	42	-15.321	1.766	5.615	1.00	0.00
ATOM 609	NH1	ARG	A	42	-15.082	2.649	4.653	1.00	0.00
ATOM 610	NH2	ARG	A	42	-16.563	1.360	5.839	1.00	0.00
ATOM 611	H	ARG	A	42	-12.306	-1.924	3.888	1.00	0.00
ATOM 612	HA	ARG	A	42	-10.659	0.270	4.654	1.00	0.00
ATOM 613	1HB	ARG	A	42	-12.953	-0.792	5.635	1.00	0.00
ATOM 614	2HB	ARG	A	42	-11.790	-1.440	6.783	1.00	0.00
ATOM 615	1HG	ARG	A	42	-12.276	0.505	7.835	1.00	0.00
ATOM 616	2HG	ARG	A	42	-10.971	1.083	6.798	1.00	0.00
ATOM 617	1HD	ARG	A	42	-12.768	2.641	6.632	1.00	0.00
ATOM 618	2HD	ARG	A	42	-12.706	1.735	5.120	1.00	0.00
ATOM 619	HE	ARG	A	42	-14.525	0.636	7.056	1.00	0.00
ATOM 620	1HH1	ARG	A	42	-14.147	2.959	4.479	1.00	0.00
ATOM 621	2HH1	ARG	A	42	-15.837	3.005	4.103	1.00	0.00

ATOM 622	1HH2	ARG	A	42	-16.749	0.695	6.563	1.00	0.00
ATOM 623	2HH2	ARG	A	42	-17.314	1.719	5.286	1.00	0.00
ATOM 624	N	SER	A	43	-9.623	-2.751	5.300	1.00	0.00
ATOM 625	CA	SER	A	43	-8.483	-3.540	5.750	1.00	0.00
ATOM 626	C	SER	A	43	-7.205	-3.112	5.034	1.00	0.00
ATOM 627	O	SER	A	43	-6.158	-2.942	5.658	1.00	0.00
ATOM 628	CB	SER	A	43	-8.739	-5.029	5.512	1.00	0.00
ATOM 629	OG	SER	A	43	-7.912	-5.829	6.338	1.00	0.00
ATOM 630	H	SER	A	43	-10.372	-3.203	4.857	1.00	0.00
ATOM 631	HA	SER	A	43	-8.360	-3.371	6.809	1.00	0.00
ATOM 632	1HB	SER	A	43	-9.772	-5.253	5.732	1.00	0.00
ATOM 633	2HB	SER	A	43	-8.533	-5.267	4.478	1.00	0.00
ATOM 634	HG	SER	A	43	-8.424	-6.562	6.689	1.00	0.00
ATOM 635	N	ILE	A	44	-7.299	-2.939	3.719	1.00	0.00
ATOM 636	CA	ILE	A	44	-6.151	-2.532	2.918	1.00	0.00
ATOM 637	C	ILE	A	44	-5.768	-1.083	3.205	1.00	0.00
ATOM 638	O	ILE	A	44	-4.594	-0.769	3.406	1.00	0.00
ATOM 639	CB	ILE	A	44	-6.431	-2.689	1.411	1.00	0.00
ATOM 640	CG1	ILE	A	44	-6.964	-4.093	1.114	1.00	0.00
ATOM 641	CG2	ILE	A	44	-5.170	-2.415	0.606	1.00	0.00
ATOM 642	CD1	ILE	A	44	-7.312	-4.309	-0.343	1.00	0.00
ATOM 643	H	ILE	A	44	-8.160	-3.090	3.277	1.00	0.00
ATOM 644	HA	ILE	A	44	-5.320	-3.171	3.178	1.00	0.00
ATOM 645	HB	ILE	A	44	-7.175	-1.961	1.129	1.00	0.00
ATOM 646	1HG1	ILE	A	44	-6.217	-4.821	1.387	1.00	0.00
ATOM 647	2HG1	ILE	A	44	-7.857	-4.262	1.698	1.00	0.00
ATOM 648	1HG2	ILE	A	44	-5.166	-1.384	0.285	1.00	0.00

ATOM 649	2HG2	ILE	A	44	-5.148	-3.061	-0.260	1.00	0.00
ATOM 650	3HG2	ILE	A	44	-4.302	-2.606	1.218	1.00	0.00
ATOM 651	1HD1	ILE	A	44	-8.387	-4.328	-0.458	1.00	0.00
ATOM 652	2HD1	ILE	A	44	-6.900	-5.250	-0.675	1.00	0.00
ATOM 653	3HD1	ILE	A	44	-6.900	-3.506	-0.936	1.00	0.00
ATOM 654	N	GLU	A	45	-6.765	-0.205	3.222	1.00	0.00
ATOM 655	CA	GLU	A	45	-6.532	1.211	3.484	1.00	0.00
ATOM 656	C	GLU	A	45	-5.901	1.414	4.858	1.00	0.00
ATOM 657	O	GLU	A	45	-5.058	2.291	5.042	1.00	0.00
ATOM 658	CB	GLU	A	45	-7.847	1.990	3.387	1.00	0.00
ATOM 659	CG	GLU	A	45	-7.898	2.953	2.213	1.00	0.00
ATOM 660	CD	GLU	A	45	-8.633	4.237	2.543	1.00	0.00
ATOM 661	OE1	GLU	A	45	-9.861	4.178	2.766	1.00	0.00
ATOM 662	OE2	GLU	A	45	-7.981	5.302	2.581	1.00	0.00
ATOM 663	H	GLU	A	45	-7.679	-0.516	3.054	1.00	0.00
ATOM 664	HA	GLU	A	45	-5.851	1.579	2.731	1.00	0.00
ATOM 665	1HB	GLU	A	45	-8.661	1.288	3.285	1.00	0.00
ATOM 666	2HB	GLU	A	45	-7.985	2.558	4.297	1.00	0.00
ATOM 667	1HG	GLU	A	45	-6.888	3.201	1.922	1.00	0.00
ATOM 668	2HG	GLU	A	45	-8.401	2.469	1.389	1.00	0.00
ATOM 669	N	ASN	A	46	-6.316	0.596	5.821	1.00	0.00
ATOM 670	CA	ASN	A	46	-5.791	0.684	7.178	1.00	0.00
ATOM 671	C	ASN	A	46	-4.360	0.160	7.243	1.00	0.00
ATOM 672	O	ASN	A	46	-3.488	0.779	7.852	1.00	0.00
ATOM 673	CB	ASN	A	46	-6.679	-0.103	8.142	1.00	0.00
ATOM 674	CG	ASN	A	46	-6.259	0.070	9.588	1.00	0.00
ATOM 675	OD1	ASN	A	46	-5.851	1.155	10.002	1.00	0.00

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ATOM 676	ND2	ASN	A	46	-6.357	-1.002	10.366	1.00	0.00
ATOM 677	H	ASN	A	46	-6.990	-0.084	5.613	1.00	0.00
ATOM 678	HA	ASN	A	46	-5.794	1.725	7.467	1.00	0.00
ATOM 679	1HB	ASN	A	46	-7.700	0.236	8.041	1.00	0.00
ATOM 680	2HB	ASN	A	46	-6.628	-1.153	7.895	1.00	0.00
ATOM 681	1HD2	ASN	A	46	-6.691	-1.833	9.968	1.00	0.00
ATOM 682	2HD2	ASN	A	46	-6.092	-0.919	11.305	1.00	0.00
ATOM 683	N	ALA	A	47	-4.127	-0.986	6.612	1.00	0.00
ATOM 684	CA	ALA	A	47	-2.802	-1.595	6.597	1.00	0.00
ATOM 685	C	ALA	A	47	-1.783	-0.675	5.933	1.00	0.00
ATOM 686	O	ALA	A	47	-0.629	-0.604	6.356	1.00	0.00
ATOM 687	CB	ALA	A	47	-2.851	-2.939	5.883	1.00	0.00
ATOM 688	H	ALA	A	47	-4.864	-1.432	6.144	1.00	0.00
ATOM 689	HA	ALA	A	47	-2.504	-1.769	7.621	1.00	0.00
ATOM 690	1HB	ALA	A	47	-3.748	-2.995	5.284	1.00	0.00
ATOM 691	2HB	ALA	A	47	-2.855	-3.735	6.613	1.00	0.00
ATOM 692	3HB	ALA	A	47	-1.985	-3.041	5.245	1.00	0.00
ATOM 693	N	LEU	A	48	-2.217	0.027	4.892	1.00	0.00
ATOM 694	CA	LEU	A	48	-1.343	0.942	4.168	1.00	0.00
ATOM 695	C	LEU	A	48	-1.030	2.178	5.006	1.00	0.00
ATOM 696	O	LEU	A	48	0.036	2.777	4.873	1.00	0.00
ATOM 697	CB	LEU	A	48	-1.991	1.360	2.846	1.00	0.00
ATOM 698	CG	LEU	A	48	-1.835	0.357	1.703	1.00	0.00
ATOM 699	CD1	LEU	A	48	-2.763	0.712	0.551	1.00	0.00
ATOM 700	CD2	LEU	A	48	-0.390	0.308	1.231	1.00	0.00
ATOM 701	H	LEU	A	48	-3.148	-0.074	4.602	1.00	0.00
ATOM 702	HA	LEU	A	48	-0.420	0.422	3.957	1.00	0.00

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ATOM 703	1HB	LEU	A	48	-3.046	1.515	3.022	1.00	0.00
ATOM 704	2HB	LEU	A	48	-1.553	2.296	2.536	1.00	0.00
ATOM 705	HG	LEU	A	48	-2.106	-0.627	2.057	1.00	0.00
ATOM 706	1HD1	LEU	A	48	-2.388	1.590	0.045	1.00	0.00
ATOM 707	2HD1	LEU	A	48	-3.752	0.912	0.934	1.00	0.00
ATOM 708	3HD1	LEU	A	48	-2.806	-0.113	-0.145	1.00	0.00
ATOM 709	1HD2	LEU	A	48	-0.324	-0.291	0.335	1.00	0.00
ATOM 710	2HD2	LEU	A	48	0.227	-0.129	2.002	1.00	0.00
ATOM 711	3HD2	LEU	A	48	-0.046	1.309	1.020	1.00	0.00
ATOM 712	N	ASN	A	49	-1.968	2.554	5.869	1.00	0.00
ATOM 713	CA	ASN	A	49	-1.794	3.720	6.728	1.00	0.00
ATOM 714	C	ASN	A	49	-0.567	3.564	7.621	1.00	0.00
ATOM 715	O	ASN	A	49	0.357	4.376	7.571	1.00	0.00
ATOM 716	CB	ASN	A	49	-3.041	3.936	7.587	1.00	0.00
ATOM 717	CG	ASN	A	49	-3.238	5.392	7.963	1.00	0.00
ATOM 718	OD1	ASN	A	49	-2.817	5.831	9.034	1.00	0.00
ATOM 719	ND2	ASN	A	49	-3.882	6.148	7.083	1.00	0.00
ATOM 720	H	ASN	A	49	-2.799	2.037	5.929	1.00	0.00
ATOM 721	HA	ASN	A	49	-1.653	4.581	6.092	1.00	0.00
ATOM 722	1HB	ASN	A	49	-3.909	3.604	7.040	1.00	0.00
ATOM 723	2HB	ASN	A	49	-2.948	3.357	8.495	1.00	0.00
ATOM 724	1HD2	ASN	A	49	-4.189	5.730	6.251	1.00	0.00
ATOM 725	2HD2	ASN	A	49	-4.024	7.093	7.301	1.00	0.00
ATOM 726	N	GLN	A	50	-0.566	2.517	8.440	1.00	0.00
ATOM 727	CA	GLN	A	50	0.546	2.256	9.346	1.00	0.00
ATOM 728	C	GLN	A	50	1.849	2.067	8.574	1.00	0.00
ATOM 729	O	GLN	A	50	2.927	2.394	9.070	1.00	0.00

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ATOM 730	CB	GLN A	50	0.259	1.018	10.198	1.00	0.00
ATOM 731	CG	GLN A	50	0.114	-0.258	9.385	1.00	0.00
ATOM 732	CD	GLN A	50	-0.510	-1.388	10.182	1.00	0.00
ATOM 733	OE1	GLN A	50	-1.463	-2.026	9.734	1.00	0.00
ATOM 734	NE2	GLN A	50	0.025	-1.640	11.370	1.00	0.00
ATOM 735	H	GLN A	50	-1.333	1.906	8.435	1.00	0.00
ATOM 736	HA	GLN A	50	0.649	3.112	9.997	1.00	0.00
ATOM 737	1HB	GLN A	50	1.068	0.882	10.900	1.00	0.00
ATOM 738	2HB	GLN A	50	-0.658	1.177	10.745	1.00	0.00
ATOM 739	1HG	GLN A	50	-0.510	-0.055	8.529	1.00	0.00
ATOM 740	2HG	GLN A	50	1.092	-0.570	9.052	1.00	0.00
ATOM 741	1HE2	GLN A	50	0.783	-1.092	11.663	1.00	0.00
ATOM 742	2HE2	GLN A	50	-0.359	-2.366	11.906	1.00	0.00
ATOM 743	N	LEU A	51	1.742	1.536	7.361	1.00	0.00
ATOM 744	CA	LEU A	51	2.914	1.303	6.525	1.00	0.00
ATOM 745	C	LEU A	51	3.637	2.611	6.221	1.00	0.00
ATOM 746	O	LEU A	51	4.842	2.731	6.442	1.00	0.00
ATOM 747	CB	LEU A	51	2.506	0.618	5.218	1.00	0.00
ATOM 748	CG	LEU A	51	3.631	-0.128	4.499	1.00	0.00
ATOM 749	CD1	LEU A	51	3.071	-1.287	3.690	1.00	0.00
ATOM 750	CD2	LEU A	51	4.413	0.821	3.604	1.00	0.00
ATOM 751	H	LEU A	51	0.856	1.295	7.022	1.00	0.00
ATOM 752	HA	LEU A	51	3.583	0.653	7.066	1.00	0.00
ATOM 753	1HB	LEU A	51	1.716	-0.086	5.437	1.00	0.00
ATOM 754	2HB	LEU A	51	2.118	1.371	4.548	1.00	0.00
ATOM 755	HG	LEU A	51	4.312	-0.533	5.234	1.00	0.00
ATOM 756	1HD1	LEU A	51	2.141	-0.987	3.228	1.00	0.00



ATOM 757	2HD1	LEU	A	51	2.894	-2.129	4.342	1.00	0.00
ATOM 758	3HD1	LEU	A	51	3.779	-1.567	2.924	1.00	0.00
ATOM 759	1HD2	LEU	A	51	3.726	1.376	2.981	1.00	0.00
ATOM 760	2HD2	LEU	A	51	5.087	0.255	2.979	1.00	0.00
ATOM 761	3HD2	LEU	A	51	4.979	1.509	4.215	1.00	0.00
ATOM 762	N	PHE	A	52	2.894	3.589	5.714	1.00	0.00
ATOM 763	CA	PHE	A	52	3.466	4.889	5.380	1.00	0.00
ATOM 764	C	PHE	A	52	4.046	5.566	6.618	1.00	0.00
ATOM 765	O	PHE	A	52	5.121	6.163	6.563	1.00	0.00
ATOM 766	CB	PHE	A	52	2.402	5.787	4.745	1.00	0.00
ATOM 767	CG	PHE	A	52	1.620	5.111	3.655	1.00	0.00
ATOM 768	CD1	PHE	A	52	0.239	5.216	3.609	1.00	0.00
ATOM 769	CD2	PHE	A	52	2.265	4.370	2.677	1.00	0.00
ATOM 770	CE1	PHE	A	52	-0.484	4.594	2.609	1.00	0.00
ATOM 771	CE2	PHE	A	52	1.548	3.748	1.674	1.00	0.00
ATOM 772	CZ	PHE	A	52	0.171	3.859	1.640	1.00	0.00
ATOM 773	H	PHE	A	52	1.939	3.433	5.560	1.00	0.00
ATOM 774	HA	PHE	A	52	4.260	4.727	4.667	1.00	0.00
ATOM 775	1HB	PHE	A	52	1.706	6.103	5.506	1.00	0.00
ATOM 776	2HB	PHE	A	52	2.883	6.656	4.320	1.00	0.00
ATOM 777	HD1	PHE	A	52	-0.274	5.790	4.366	1.00	0.00
ATOM 778	HD2	PHE	A	52	3.341	4.283	2.703	1.00	0.00
ATOM 779	HE1	PHE	A	52	-1.560	4.683	2.584	1.00	0.00
ATOM 780	HE2	PHE	A	52	2.063	3.174	0.918	1.00	0.00
ATOM 781	HZ	PHE	A	52	-0.391	3.373	0.857	1.00	0.00
ATOM 782	N	ARG	A	53	3.328	5.469	7.732	1.00	0.00
ATOM 783	CA	ARG	A	53	3.774	6.073	8.983	1.00	0.00

ATOM 784	C	ARG A	53	5.096	5.467	9.443	1.00	0.00
ATOM 785	O	ARG A	53	5.893	6.128	10.110	1.00	0.00
ATOM 786	CB	ARG A	53	2.711	5.891	10.069	1.00	0.00
ATOM 787	CG	ARG A	53	1.325	6.355	9.648	1.00	0.00
ATOM 788	CD	ARG A	53	0.692	7.253	10.699	1.00	0.00
ATOM 789	NE	ARG A	53	0.016	6.484	11.741	1.00	0.00
ATOM 790	CZ	ARG A	53	-0.509	7.024	12.838	1.00	0.00
ATOM 791	NH1	ARG A	53	-0.438	8.334	13.040	1.00	0.00
ATOM 792	NH2	ARG A	53	-1.106	6.253	13.736	1.00	0.00
ATOM 793	H	ARG A	53	2.479	4.980	7.713	1.00	0.00
ATOM 794	HA	ARG A	53	3.917	7.129	8.807	1.00	0.00
ATOM 795	1HB	ARG A	53	2.654	4.843	10.326	1.00	0.00
ATOM 796	2HB	ARG A	53	3.007	6.452	10.942	1.00	0.00
ATOM 797	1HG	ARG A	53	1.406	6.904	8.721	1.00	0.00
ATOM 798	2HG	ARG A	53	0.696	5.488	9.500	1.00	0.00
ATOM 799	1HD	ARG A	53	1.465	7.854	11.153	1.00	0.00
ATOM 800	2HD	ARG A	53	-0.028	7.898	10.216	1.00	0.00
ATOM 801	HE	ARG A	53	-0.050	5.514	11.616	1.00	0.00
ATOM 802	1HH1	ARG A	53	0.010	8.922	12.368	1.00	0.00
ATOM 803	2HH1	ARG A	53	-0.836	8.734	13.866	1.00	0.00
ATOM 804	1HH2	ARG A	53	-1.162	5.265	13.589	1.00	0.00
ATOM 805	2HH2	ARG A	53	-1.501	6.658	14.560	1.00	0.00
ATOM 806	N	ASN A	54	5.322	4.207	9.087	1.00	0.00
ATOM 807	CA	ASN A	54	6.549	3.514	9.466	1.00	0.00
ATOM 808	C	ASN A	54	7.595	3.603	8.358	1.00	0.00
ATOM 809	O	ASN A	54	8.796	3.549	8.622	1.00	0.00
ATOM 810	CB	ASN A	54	6.251	2.048	9.784	1.00	0.00

ATOM 811	CG	ASN A	54	5.655	1.866	11.166	1.00	0.00
ATOM 812	OD1	ASN A	54	6.351	1.983	12.175	1.00	0.00
ATOM 813	ND2	ASN A	54	4.360	1.577	11.219	1.00	0.00
ATOM 814	H	ASN A	54	4.649	3.732	8.555	1.00	0.00
ATOM 815	HA	ASN A	54	6.938	3.993	10.351	1.00	0.00
ATOM 816	1HB	ASN A	54	5.551	1.663	9.058	1.00	0.00
ATOM 817	2HB	ASN A	54	7.169	1.481	9.730	1.00	0.00
ATOM 818	1HD2	ASN A	54	3.869	1.498	10.374	1.00	0.00
ATOM 819	2HD2	ASN A	54	3.949	1.453	12.100	1.00	0.00
ATOM 820	N	SER A	55	7.133	3.740	7.119	1.00	0.00
ATOM 821	CA	SER A	55	8.031	3.834	5.973	1.00	0.00
ATOM 822	C	SER A	55	9.004	4.998	6.134	1.00	0.00
ATOM 823	O	SER A	55	8.721	5.963	6.844	1.00	0.00
ATOM 824	CB	SER A	55	7.228	4.003	4.682	1.00	0.00
ATOM 825	OG	SER A	55	6.470	5.199	4.705	1.00	0.00
ATOM 826	H	SER A	55	6.164	3.776	6.971	1.00	0.00
ATOM 827	HA	SER A	55	8.594	2.915	5.918	1.00	0.00
ATOM 828	1HB	SER A	55	7.905	4.037	3.842	1.00	0.00
ATOM 829	2HB	SER A	55	6.554	3.166	4.568	1.00	0.00
ATOM 830	HG	SER A	55	6.276	5.473	3.805	1.00	0.00
ATOM 831	N	SER A	56	10.151	4.900	5.470	1.00	0.00
ATOM 832	CA	SER A	56	11.167	5.943	5.537	1.00	0.00
ATOM 833	C	SER A	56	10.609	7.278	5.052	1.00	0.00
ATOM 834	O	SER A	56	11.055	8.342	5.482	1.00	0.00
ATOM 835	CB	SER A	56	12.386	5.553	4.701	1.00	0.00
ATOM 836	OG	SER A	56	13.222	6.672	4.463	1.00	0.00
ATOM 837	H	SER A	56	10.318	4.105	4.919	1.00	0.00

ATOM 838	HA	SER A	56	11.468	6.047	6.569	1.00	0.00
ATOM 839	1HB	SER A	56	12.954	4.801	5.226	1.00	0.00
ATOM 840	2HB	SER A	56	12.056	5.157	3.751	1.00	0.00
ATOM 841	HG	SER A	56	13.327	7.172	5.277	1.00	0.00
ATOM 842	N	ILE A	57	9.630	7.214	4.154	1.00	0.00
ATOM 843	CA	ILE A	57	9.011	8.416	3.612	1.00	0.00
ATOM 844	C	ILE A	57	7.761	8.790	4.403	1.00	0.00
ATOM 845	O	ILE A	57	6.713	9.090	3.828	1.00	0.00
ATOM 846	CB	ILE A	57	8.635	8.236	2.128	1.00	0.00
ATOM 847	CG1	ILE A	57	7.803	6.966	1.940	1.00	0.00
ATOM 848	CG2	ILE A	57	9.886	8.190	1.264	1.00	0.00
ATOM 849	CD1	ILE A	57	7.172	6.853	0.570	1.00	0.00
ATOM 850	H	ILE A	57	9.317	6.337	3.851	1.00	0.00
ATOM 851	HA	ILE A	57	9.726	9.223	3.686	1.00	0.00
ATOM 852	HB	ILE A	57	8.048	9.090	1.822	1.00	0.00
ATOM 853	1HG1	ILE A	57	8.437	6.104	2.083	1.00	0.00
ATOM 854	2HG1	ILE A	57	7.011	6.950	2.674	1.00	0.00
ATOM 855	1HG2	ILE A	57	10.694	7.743	1.823	1.00	0.00
ATOM 856	2HG2	ILE A	57	10.160	9.194	0.975	1.00	0.00
ATOM 857	3HG2	ILE A	57	9.691	7.602	0.379	1.00	0.00
ATOM 858	1HD1	ILE A	57	6.291	6.230	0.629	1.00	0.00
ATOM 859	2HD1	ILE A	57	7.879	6.414	-0.118	1.00	0.00
ATOM 860	3HD1	ILE A	57	6.894	7.837	0.220	1.00	0.00
ATOM 861	N	LYS A	58	7.878	8.770	5.727	1.00	0.00
ATOM 862	CA	LYS A	58	6.758	9.108	6.600	1.00	0.00
ATOM 863	C	LYS A	58	6.744	10.601	6.918	1.00	0.00
ATOM 864	O	LYS A	58	6.579	10.999	8.071	1.00	0.00

ATOM 865	CB	LYS A	58	6.833	8.296	7.895	1.00	0.00
ATOM 866	CG	LYS A	58	8.053	8.614	8.743	1.00	0.00
ATOM 867	CD	LYS A	58	8.498	7.405	9.552	1.00	0.00
ATOM 868	CE	LYS A	58	9.999	7.417	9.791	1.00	0.00
ATOM 869	NZ	LYS A	58	10.419	8.574	10.630	1.00	0.00
ATOM 870	H	LYS A	58	8.739	8.523	6.127	1.00	0.00
ATOM 871	HA	LYS A	58	5.847	8.855	6.080	1.00	0.00
ATOM 872	1HB	LYS A	58	5.950	8.498	8.484	1.00	0.00
ATOM 873	2HB	LYS A	58	6.856	7.246	7.647	1.00	0.00
ATOM 874	1HG	LYS A	58	8.861	8.917	8.095	1.00	0.00
ATOM 875	2HG	LYS A	58	7.809	9.419	9.420	1.00	0.00
ATOM 876	1HD	LYS A	58	7.992	7.416	10.505	1.00	0.00
ATOM 877	2HD	LYS A	58	8.235	6.507	9.012	1.00	0.00
ATOM 878	1HE	LYS A	58	10.279	6.501	10.289	1.00	0.00
ATOM 879	2HE	LYS A	58	10.502	7.474	8.836	1.00	0.00
ATOM 880	1HZ	LYS A	58	9.716	9.338	10.562	1.00	0.00
ATOM 881	2HZ	LYS A	58	11.340	8.934	10.307	1.00	0.00
ATOM 882	3HZ	LYS A	58	10.504	8.281	11.624	1.00	0.00
ATOM 883	N	SER A	59	6.916	11.420	5.887	1.00	0.00
ATOM 884	CA	SER A	59	6.921	12.870	6.050	1.00	0.00
ATOM 885	C	SER A	59	6.191	13.541	4.892	1.00	0.00
ATOM 886	O	SER A	59	5.351	14.418	5.097	1.00	0.00
ATOM 887	CB	SER A	59	8.356	13.391	6.137	1.00	0.00
ATOM 888	OG	SER A	59	8.391	14.701	6.677	1.00	0.00
ATOM 889	H	SER A	59	7.041	11.042	4.992	1.00	0.00
ATOM 890	HA	SER A	59	6.404	13.102	6.969	1.00	0.00
ATOM 891	1HB	SER A	59	8.936	12.739	6.773	1.00	0.00

ATOM 892	2HB	SER A	59	8.791	13.410	5.148	1.00	0.00
ATOM 893	HG	SER A	59	7.837	14.739	7.461	1.00	0.00
ATOM 894	N	TYR A	60	6.516	13.119	3.674	1.00	0.00
ATOM 895	CA	TYR A	60	5.890	13.672	2.479	1.00	0.00
ATOM 896	C	TYR A	60	4.661	12.858	2.089	1.00	0.00
ATOM 897	O	TYR A	60	3.717	13.385	1.500	1.00	0.00
ATOM 898	CB	TYR A	60	6.888	13.696	1.320	1.00	0.00
ATOM 899	CG	TYR A	60	7.964	14.748	1.465	1.00	0.00
ATOM 900	CD1	TYR A	60	7.634	16.084	1.659	1.00	0.00
ATOM 901	CD2	TYR A	60	9.309	14.406	1.406	1.00	0.00
ATOM 902	CE1	TYR A	60	8.615	17.049	1.791	1.00	0.00
ATOM 903	CE2	TYR A	60	10.295	15.366	1.537	1.00	0.00
ATOM 904	CZ	TYR A	60	9.943	16.685	1.728	1.00	0.00
ATOM 905	OH	TYR A	60	10.922	17.644	1.858	1.00	0.00
ATOM 906	H	TYR A	60	7.190	12.415	3.576	1.00	0.00
ATOM 907	HA	TYR A	60	5.585	14.684	2.701	1.00	0.00
ATOM 908	1HB	TYR A	60	7.374	12.733	1.253	1.00	0.00
ATOM 909	2HB	TYR A	60	6.355	13.889	0.401	1.00	0.00
ATOM 910	HD1	TYR A	60	6.593	16.366	1.708	1.00	0.00
ATOM 911	HD2	TYR A	60	9.583	13.373	1.254	1.00	0.00
ATOM 912	HE1	TYR A	60	8.338	18.082	1.941	1.00	0.00
ATOM 913	HE2	TYR A	60	11.336	15.081	1.488	1.00	0.00
ATOM 914	HH	TYR A	60	10.812	18.308	1.175	1.00	0.00
ATOM 915	N	PHE A	61	4.679	11.572	2.421	1.00	0.00
ATOM 916	CA	PHE A	61	3.567	10.683	2.107	1.00	0.00
ATOM 917	C	PHE A	61	2.329	11.055	2.918	1.00	0.00
ATOM 918	O	PHE A	61	2.180	10.638	4.066	1.00	0.00

ATOM 919	CB	PHE A	61	3.956	9.230	2.386	1.00	0.00
ATOM 920	CG	PHE A	61	3.127	8.230	1.632	1.00	0.00
ATOM 921	CD1	PHE A	61	3.704	7.415	0.673	1.00	0.00
ATOM 922	CD2	PHE A	61	1.770	8.104	1.886	1.00	0.00
ATOM 923	CE1	PHE A	61	2.945	6.493	-0.022	1.00	0.00
ATOM 924	CE2	PHE A	61	1.005	7.184	1.193	1.00	0.00
ATOM 925	CZ	PHE A	61	1.593	6.377	0.239	1.00	0.00
ATOM 926	H	PHE A	61	5.461	11.210	2.889	1.00	0.00
ATOM 927	HA	PHE A	61	3.341	10.791	1.057	1.00	0.00
ATOM 928	1HB	PHE A	61	4.988	9.081	2.109	1.00	0.00
ATOM 929	2HB	PHE A	61	3.840	9.031	3.442	1.00	0.00
ATOM 930	HD1	PHE A	61	4.761	7.505	0.469	1.00	0.00
ATOM 931	HD2	PHE A	61	1.310	8.734	2.632	1.00	0.00
ATOM 932	HE1	PHE A	61	3.408	5.864	-0.768	1.00	0.00
ATOM 933	HE2	PHE A	61	-0.051	7.095	1.400	1.00	0.00
ATOM 934	HZ	PHE A	61	0.999	5.657	-0.303	1.00	0.00
ATOM 935	N	SER A	62	1.446	11.843	2.313	1.00	0.00
ATOM 936	CA	SER A	62	0.223	12.272	2.979	1.00	0.00
ATOM 937	C	SER A	62	-0.640	11.073	3.358	1.00	0.00
ATOM 938	O	SER A	62	-0.858	10.800	4.539	1.00	0.00
ATOM 939	CB	SER A	62	-0.569	13.220	2.078	1.00	0.00
ATOM 940	OG	SER A	62	-0.238	14.572	2.343	1.00	0.00
ATOM 941	H	SER A	62	1.623	12.143	1.397	1.00	0.00
ATOM 942	HA	SER A	62	0.502	12.797	3.880	1.00	0.00
ATOM 943	1HB	SER A	62	-0.342	13.003	1.044	1.00	0.00
ATOM 944	2HB	SER A	62	-1.626	13.080	2.250	1.00	0.00
ATOM 945	HG	SER A	62	-0.974	15.001	2.785	1.00	0.00

ATOM 946	N	ASP	A	63	-1.129	10.359	2.349	1.00	0.00
ATOM 947	CA	ASP	A	63	-1.969	9.188	2.576	1.00	0.00
ATOM 948	C	ASP	A	63	-2.163	8.402	1.284	1.00	0.00
ATOM 949	O	ASP	A	63	-1.521	8.684	0.271	1.00	0.00
ATOM 950	CB	ASP	A	63	-3.326	9.612	3.143	1.00	0.00
ATOM 951	CG	ASP	A	63	-3.443	9.333	4.628	1.00	0.00
ATOM 952	OD1	ASP	A	63	-2.822	8.359	5.101	1.00	0.00
ATOM 953	OD2	ASP	A	63	-4.156	10.091	5.321	1.00	0.00
ATOM 954	H	ASP	A	63	-0.921	10.627	1.429	1.00	0.00
ATOM 955	HA	ASP	A	63	-1.469	8.558	3.296	1.00	0.00
ATOM 956	1HB	ASP	A	63	-3.461	10.672	2.984	1.00	0.00
ATOM 957	2HB	ASP	A	63	-4.109	9.073	2.631	1.00	0.00
ATOM 958	N	CYS	A	64	-3.051	7.413	1.325	1.00	0.00
ATOM 959	CA	CYS	A	64	-3.329	6.586	0.158	1.00	0.00
ATOM 960	C	CYS	A	64	-4.828	6.512	-0.113	1.00	0.00
ATOM 961	O	CYS	A	64	-5.642	6.673	0.798	1.00	0.00
ATOM 962	CB	CYS	A	64	-2.765	5.178	0.356	1.00	0.00
ATOM 963	SG	CYS	A	64	-3.020	4.074	-1.053	1.00	0.00
ATOM 964	H	CYS	A	64	-3.531	7.236	2.161	1.00	0.00
ATOM 965	HA	CYS	A	64	-2.844	7.041	-0.694	1.00	0.00
ATOM 966	1HB	CYS	A	64	-1.702	5.246	0.531	1.00	0.00
ATOM 967	2HB	CYS	A	64	-3.238	4.728	1.218	1.00	0.00
ATOM 968	HG	CYS	A	64	-2.283	3.460	-1.085	1.00	0.00
ATOM 969	N	GLN	A	65	-5.187	6.271	-1.369	1.00	0.00
ATOM 970	CA	GLN	A	65	-6.589	6.177	-1.759	1.00	0.00
ATOM 971	C	GLN	A	65	-6.832	4.949	-2.631	1.00	0.00
ATOM 972	O	GLN	A	65	-6.218	4.796	-3.687	1.00	0.00



ATOM 973	CB	GLN	A	65	-7.018	7.440	-2.507	1.00	0.00
ATOM 974	CG	GLN	A	65	-8.520	7.542	-2.717	1.00	0.00
ATOM 975	CD	GLN	A	65	-8.916	8.771	-3.511	1.00	0.00
ATOM 976	OE1	GLN	A	65	-8.423	9.871	-3.262	1.00	0.00
ATOM 977	NE2	GLN	A	65	-9.813	8.589	-4.474	1.00	0.00
ATOM 978	H	GLN	A	65	-4.493	6.153	-2.051	1.00	0.00
ATOM 979	HA	GLN	A	65	-7.178	6.085	-0.858	1.00	0.00
ATOM 980	1HB	GLN	A	65	-6.696	8.305	-1.946	1.00	0.00
ATOM 981	2HB	GLN	A	65	-6.541	7.452	-3.475	1.00	0.00
ATOM 982	1HG	GLN	A	65	-8.857	6.665	-3.249	1.00	0.00
ATOM 983	2HG	GLN	A	65	-9.004	7.584	-1.751	1.00	0.00
ATOM 984	1HE2	GLN	A	65	-10.163	7.686	-4.616	1.00	0.00
ATOM 985	2HE2	GLN	A	65	-10.087	9.367	-5.004	1.00	0.00
ATOM 986	N	VAL	A	66	-7.729	4.078	-2.181	1.00	0.00
ATOM 987	CA	VAL	A	66	-8.051	2.865	-2.922	1.00	0.00
ATOM 988	C	VAL	A	66	-9.094	3.140	-4.002	1.00	0.00
ATOM 989	O	VAL	A	66	-10.227	3.514	-3.703	1.00	0.00
ATOM 990	CB	VAL	A	66	-8.574	1.757	-1.984	1.00	0.00
ATOM 991	CG1	VAL	A	66	-9.854	2.198	-1.291	1.00	0.00
ATOM 992	CG2	VAL	A	66	-8.793	0.462	-2.753	1.00	0.00
ATOM 993	H	VAL	A	66	-8.184	4.255	-1.333	1.00	0.00
ATOM 994	HA	VAL	A	66	-7.145	2.511	-3.393	1.00	0.00
ATOM 995	HB	VAL	A	66	-7.826	1.576	-1.225	1.00	0.00
ATOM 996	1HG1	VAL	A	66	-9.839	1.868	-0.263	1.00	0.00
ATOM 997	2HG1	VAL	A	66	-10.705	1.763	-1.796	1.00	0.00
ATOM 998	3HG1	VAL	A	66	-9.929	3.274	-1.323	1.00	0.00
ATOM 999	1HG2	VAL	A	66	-7.840	0.069	-3.076	1.00	0.00

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ATOM 1000	2HG2	VAL	A	66	-9.413	0.656	-3.616	1.00	0.00
ATOM 1001	3HG2	VAL	A	66	-9.282	-0.258	-2.114	1.00	0.00
ATOM 1002	N	LEU	A	67	-8.700	2.955	-5.258	1.00	0.00
ATOM 1003	CA	LEU	A	67	-9.600	3.183	-6.382	1.00	0.00
ATOM 1004	C	LEU	A	67	-10.616	2.052	-6.505	1.00	0.00
ATOM 1005	O	LEU	A	67	-11.815	2.259	-6.322	1.00	0.00
ATOM 1006	CB	LEU	A	67	-8.803	3.314	-7.682	1.00	0.00
ATOM 1007	CG	LEU	A	67	-7.576	4.223	-7.601	1.00	0.00
ATOM 1008	CD1	LEU	A	67	-6.710	4.062	-8.841	1.00	0.00
ATOM 1009	CD2	LEU	A	67	-7.999	5.673	-7.428	1.00	0.00
ATOM 1010	H	LEU	A	67	-7.783	2.656	-5.433	1.00	0.00
ATOM 1011	HA	LEU	A	67	-10.128	4.107	-6.201	1.00	0.00
ATOM 1012	1HB	LEU	A	67	-8.478	2.328	-7.979	1.00	0.00
ATOM 1013	2HB	LEU	A	67	-9.461	3.703	-8.445	1.00	0.00
ATOM 1014	HG	LEU	A	67	-6.983	3.941	-6.743	1.00	0.00
ATOM 1015	1HD1	LEU	A	67	-5.869	4.738	-8.784	1.00	0.00
ATOM 1016	2HD1	LEU	A	67	-7.295	4.289	-9.720	1.00	0.00
ATOM 1017	3HD1	LEU	A	67	-6.351	3.045	-8.900	1.00	0.00
ATOM 1018	1HD2	LEU	A	67	-8.988	5.712	-6.997	1.00	0.00
ATOM 1019	2HD2	LEU	A	67	-8.006	6.164	-8.390	1.00	0.00
ATOM 1020	3HD2	LEU	A	67	-7.301	6.176	-6.774	1.00	0.00
ATOM 1021	N	ALA	A	68	-10.127	0.856	-6.817	1.00	0.00
ATOM 1022	CA	ALA	A	68	-10.992	-0.308	-6.964	1.00	0.00
ATOM 1023	C	ALA	A	68	-10.173	-1.588	-7.081	1.00	0.00
ATOM 1024	O	ALA	A	68	-8.948	-1.545	-7.200	1.00	0.00
ATOM 1025	CB	ALA	A	68	-11.895	-0.144	-8.177	1.00	0.00
ATOM 1026	H	ALA	A	68	-9.161	0.754	-6.951	1.00	0.00

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ATOM	1027	HA	ALA	A	68	-11.617	-0.371	-6.085	1.00	0.00
ATOM	1028	1HB	ALA	A	68	-12.089	-1.112	-8.615	1.00	0.00
ATOM	1029	2HB	ALA	A	68	-11.411	0.491	-8.904	1.00	0.00
ATOM	1030	3HB	ALA	A	68	-12.829	0.306	-7.872	1.00	0.00
ATOM	1031	N	PHE	A	69	-10.857	-2.728	-7.047	1.00	0.00
ATOM	1032	CA	PHE	A	69	-10.193	-4.021	-7.149	1.00	0.00
ATOM	1033	C	PHE	A	69	-10.405	-4.634	-8.531	1.00	0.00
ATOM	1034	O	PHE	A	69	-11.526	-4.673	-9.037	1.00	0.00
ATOM	1035	CB	PHE	A	69	-10.714	-4.972	-6.070	1.00	0.00
ATOM	1036	CG	PHE	A	69	-10.504	-4.465	-4.672	1.00	0.00
ATOM	1037	CD1	PHE	A	69	-11.579	-4.284	-3.818	1.00	0.00
ATOM	1038	CD2	PHE	A	69	-9.231	-4.170	-4.213	1.00	0.00
ATOM	1039	CE1	PHE	A	69	-11.389	-3.817	-2.531	1.00	0.00
ATOM	1040	CE2	PHE	A	69	-9.033	-3.702	-2.927	1.00	0.00
ATOM	1041	CZ	PHE	A	69	-10.114	-3.526	-2.085	1.00	0.00
ATOM	1042	H	PHE	A	69	-11.831	-2.697	-6.950	1.00	0.00
ATOM	1043	HA	PHE	A	69	-9.136	-3.864	-6.997	1.00	0.00
ATOM	1044	1HB	PHE	A	69	-11.774	-5.122	-6.213	1.00	0.00
ATOM	1045	2HB	PHE	A	69	-10.205	-5.921	-6.161	1.00	0.00
ATOM	1046	HD1	PHE	A	69	-12.577	-4.513	-4.165	1.00	0.00
ATOM	1047	HD2	PHE	A	69	-8.385	-4.307	-4.871	1.00	0.00
ATOM	1048	HE1	PHE	A	69	-12.236	-3.680	-1.874	1.00	0.00
ATOM	1049	HE2	PHE	A	69	-8.036	-3.475	-2.581	1.00	0.00
ATOM	1050	HZ	PHE	A	69	-9.963	-3.161	-1.080	1.00	0.00
ATOM	1051	N	ARG	A	70	-9.321	-5.110	-9.133	1.00	0.00
ATOM	1052	CA	ARG	A	70	-9.388	-5.721	-10.456	1.00	0.00
ATOM	1053	C	ARG	A	70	-9.563	-7.232	-10.348	1.00	0.00

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ATOM	1054	O	ARG	A	70	-8.642	-7.947	-9.950	1.00	0.00
ATOM	1055	CB	ARG	A	70	-8.125	-5.394	-11.256	1.00	0.00
ATOM	1056	CG	ARG	A	70	-8.325	-4.296	-12.287	1.00	0.00
ATOM	1057	CD	ARG	A	70	-8.023	-2.924	-11.707	1.00	0.00
ATOM	1058	NE	ARG	A	70	-6.652	-2.502	-11.983	1.00	0.00
ATOM	1059	CZ	ARG	A	70	-6.183	-2.258	-13.204	1.00	0.00
ATOM	1060	NH1	ARG	A	70	-6.971	-2.393	-14.265	1.00	0.00
ATOM	1061	NH2	ARG	A	70	-4.923	-1.877	-13.366	1.00	0.00
ATOM	1062	H	ARG	A	70	-8.455	-5.050	-8.679	1.00	0.00
ATOM	1063	HA	ARG	A	70	-10.244	-5.308	-10.968	1.00	0.00
ATOM	1064	1HB	ARG	A	70	-7.352	-5.078	-10.571	1.00	0.00
ATOM	1065	2HB	ARG	A	70	-7.795	-6.286	-11.770	1.00	0.00
ATOM	1066	1HG	ARG	A	70	-7.664	-4.475	-13.123	1.00	0.00
ATOM	1067	2HG	ARG	A	70	-9.351	-4.317	-12.626	1.00	0.00
ATOM	1068	1HD	ARG	A	70	-8.704	-2.207	-12.140	1.00	0.00
ATOM	1069	2HD	ARG	A	70	-8.171	-2.959	-10.638	1.00	0.00
ATOM	1070	HE	ARG	A	70	-6.049	-2.395	-11.218	1.00	0.00
ATOM	1071	1HH1	ARG	A	70	-7.922	-2.680	-14.150	1.00	0.00
ATOM	1072	2HH1	ARG	A	70	-6.612	-2.208	-15.180	1.00	0.00
ATOM	1073	1HH2	ARG	A	70	-4.327	-1.773	-12.572	1.00	0.00
ATOM	1074	2HH2	ARG	A	70	-4.572	-1.693	-14.285	1.00	0.00
ATOM	1075	N	SER	A	71	-10.749	-7.714	-10.706	1.00	0.00
ATOM	1076	CA	SER	A	71	-11.044	-9.141	-10.650	1.00	0.00
ATOM	1077	C	SER	A	71	-10.349	-9.884	-11.786	1.00	0.00
ATOM	1078	O	SER	A	71	-10.802	-9.855	-12.930	1.00	0.00
ATOM	1079	CB	SER	A	71	-12.554	-9.374	-10.722	1.00	0.00
ATOM	1080	OG	SER	A	71	-12.943	-10.454	-9.891	1.00	0.00

ATOM 1081	H	SER A	71	-11.443	-7.094	-11.016	1.00	0.00
ATOM 1082	HA	SER A	71	-10.675	-9.519	-9.708	1.00	0.00
ATOM 1083	1HB	SER A	71	-13.070	-8.483	-10.396	1.00	0.00
ATOM 1084	2HB	SER A	71	-12.834	-9.600	-11.740	1.00	0.00
ATOM 1085	HG	SER A	71	-13.892	-10.581	-9.955	1.00	0.00
ATOM 1086	N	VAL A	72	-9.246	-10.552	-11.461	1.00	0.00
ATOM 1087	CA	VAL A	72	-8.488	-11.303	-12.454	1.00	0.00
ATOM 1088	C	VAL A	72	-9.305	-12.468	-13.003	1.00	0.00
ATOM 1089	O	VAL A	72	-10.007	-13.153	-12.258	1.00	0.00
ATOM 1090	CB	VAL A	72	-7.173	-11.847	-11.864	1.00	0.00
ATOM 1091	CG1	VAL A	72	-6.204	-10.709	-11.580	1.00	0.00
ATOM 1092	CG2	VAL A	72	-7.446	-12.653	-10.604	1.00	0.00
ATOM 1093	H	VAL A	72	-8.934	-10.537	-10.532	1.00	0.00
ATOM 1094	HA	VAL A	72	-8.245	-10.633	-13.265	1.00	0.00
ATOM 1095	HB	VAL A	72	-6.719	-12.501	-12.594	1.00	0.00
ATOM 1096	1HG1	VAL A	72	-6.484	-9.844	-12.162	1.00	0.00
ATOM 1097	2HG1	VAL A	72	-5.203	-11.013	-11.846	1.00	0.00
ATOM 1098	3HG1	VAL A	72	-6.238	-10.462	-10.529	1.00	0.00
ATOM 1099	1HG2	VAL A	72	-6.807	-13.524	-10.590	1.00	0.00
ATOM 1100	2HG2	VAL A	72	-8.480	-12.966	-10.593	1.00	0.00
ATOM 1101	3HG2	VAL A	72	-7.244	-12.043	-9.736	1.00	0.00
ATOM 1102	N	SER A	73	-9.210	-12.687	-14.310	1.00	0.00
ATOM 1103	CA	SER A	73	-9.941	-13.768	-14.960	1.00	0.00
ATOM 1104	C	SER A	73	-9.160	-15.077	-14.888	1.00	0.00
ATOM 1105	O	SER A	73	-9.744	-16.161	-14.899	1.00	0.00
ATOM 1106	CB	SER A	73	-10.227	-13.412	-16.420	1.00	0.00
ATOM 1107	OG	SER A	73	-9.142	-12.705	-16.996	1.00	0.00

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ATOM	1108	H	SER	A	73	-8.635	-12.106	-14.851	1.00	0.00
ATOM	1109	HA	SER	A	73	-10.878	-13.893	-14.440	1.00	0.00
ATOM	1110	1HB	SER	A	73	-10.389	-14.318	-16.985	1.00	0.00
ATOM	1111	2HB	SER	A	73	-11.111	-12.794	-16.471	1.00	0.00
ATOM	1112	N	ASN	A	74	-7.835	-14.971	-14.815	1.00	0.00
ATOM	1113	CA	ASN	A	74	-6.976	-16.147	-14.743	1.00	0.00
ATOM	1114	C	ASN	A	74	-7.346	-17.024	-13.550	1.00	0.00
ATOM	1115	O	ASN	A	74	-7.407	-18.248	-13.662	1.00	0.00
ATOM	1116	CB	ASN	A	74	-5.508	-15.726	-14.646	1.00	0.00
ATOM	1117	CG	ASN	A	74	-4.786	-15.838	-15.975	1.00	0.00
ATOM	1118	OD1	ASN	A	74	-4.898	-14.963	-16.832	1.00	0.00
ATOM	1119	ND2	ASN	A	74	-4.039	-16.922	-16.151	1.00	0.00
ATOM	1120	H	ASN	A	74	-7.428	-14.081	-14.811	1.00	0.00
ATOM	1121	HA	ASN	A	74	-7.118	-16.716	-15.649	1.00	0.00
ATOM	1122	1HB	ASN	A	74	-5.455	-14.699	-14.316	1.00	0.00
ATOM	1123	2HB	ASN	A	74	-5.003	-16.356	-13.929	1.00	0.00
ATOM	1124	1HD2	ASN	A	74	-3.997	-17.578	-15.425	1.00	0.00
ATOM	1125	2HD2	ASN	A	74	-3.561	-17.021	-17.001	1.00	0.00
ATOM	1126	N	ASN	A	75	-7.595	-16.390	-12.408	1.00	0.00
ATOM	1127	CA	ASN	A	75	-7.959	-17.115	-11.196	1.00	0.00
ATOM	1128	C	ASN	A	75	-9.011	-16.349	-10.399	1.00	0.00
ATOM	1129	O	ASN	A	75	-9.093	-15.123	-10.476	1.00	0.00
ATOM	1130	CB	ASN	A	75	-6.722	-17.355	-10.330	1.00	0.00
ATOM	1131	CG	ASN	A	75	-6.773	-18.686	-9.607	1.00	0.00
ATOM	1132	OD1	ASN	A	75	-7.815	-19.338	-9.552	1.00	0.00
ATOM	1133	ND2	ASN	A	75	-5.642	-19.098	-9.044	1.00	0.00
ATOM	1134	H	ASN	A	75	-7.531	-15.412	-12.381	1.00	0.00

ATOM	1135	HA	ASN	A	75	-8.372	-18.067	-11.491	1.00	0.00
ATOM	1136	1HB	ASN	A	75	-5.843	-17.340	-10.956	1.00	0.00
ATOM	1137	2HB	ASN	A	75	-6.647	-16.568	-9.594	1.00	0.00
ATOM	1138	1HD2	ASN	A	75	-4.849	-18.527	-9.128	1.00	0.00
ATOM	1139	2HD2	ASN	A	75	-5.646	-19.956	-8.570	1.00	0.00
ATOM	1140	N	ASN	A	76	-9.815	-17.081	-9.635	1.00	0.00
ATOM	1141	CA	ASN	A	76	-10.863	-16.472	-8.823	1.00	0.00
ATOM	1142	C	ASN	A	76	-10.416	-16.334	-7.371	1.00	0.00
ATOM	1143	O	ASN	A	76	-11.239	-16.347	-6.455	1.00	0.00
ATOM	1144	CB	ASN	A	76	-12.143	-17.305	-8.898	1.00	0.00
ATOM	1145	CG	ASN	A	76	-12.815	-17.212	-10.253	1.00	0.00
ATOM	1146	OD1	ASN	A	76	-13.081	-18.227	-10.899	1.00	0.00
ATOM	1147	ND2	ASN	A	76	-13.095	-15.991	-10.693	1.00	0.00
ATOM	1148	H	ASN	A	76	-9.701	-18.054	-9.616	1.00	0.00
ATOM	1149	HA	ASN	A	76	-11.060	-15.488	-9.222	1.00	0.00
ATOM	1150	1HB	ASN	A	76	-11.903	-18.341	-8.707	1.00	0.00
ATOM	1151	2HB	ASN	A	76	-12.837	-16.956	-8.147	1.00	0.00
ATOM	1152	1HD2	ASN	A	76	-12.856	-15.229	-10.125	1.00	0.00
ATOM	1153	2HD2	ASN	A	76	-13.530	-15.901	-11.566	1.00	0.00
ATOM	1154	N	ASN	A	77	-9.110	-16.202	-7.167	1.00	0.00
ATOM	1155	CA	ASN	A	77	-8.555	-16.061	-5.824	1.00	0.00
ATOM	1156	C	ASN	A	77	-7.773	-14.758	-5.691	1.00	0.00
ATOM	1157	O	ASN	A	77	-7.871	-14.064	-4.680	1.00	0.00
ATOM	1158	CB	ASN	A	77	-7.649	-17.249	-5.497	1.00	0.00
ATOM	1159	CG	ASN	A	77	-7.417	-17.406	-4.007	1.00	0.00
ATOM	1160	OD1	ASN	A	77	-6.302	-17.226	-3.518	1.00	0.00
ATOM	1161	ND2	ASN	A	77	-8.472	-17.744	-3.276	1.00	0.00

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ATOM	1162	H	ASN	A	77	-8.503	-16.198	-7.936	1.00	0.00
ATOM	1163	HA	ASN	A	77	-9.379	-16.044	-5.125	1.00	0.00
ATOM	1164	1HB	ASN	A	77	-8.104	-18.154	-5.869	1.00	0.00
ATOM	1165	2HB	ASN	A	77	-6.693	-17.107	-5.980	1.00	0.00
ATOM	1166	1HD2	ASN	A	77	-9.330	-17.871	-3.733	1.00	0.00
ATOM	1167	2HD2	ASN	A	77	-8.351	-17.853	-2.310	1.00	0.00
ATOM	1168	N	HIS	A	78	-6.997	-14.434	-6.720	1.00	0.00
ATOM	1169	CA	HIS	A	78	-6.197	-13.214	-6.718	1.00	0.00
ATOM	1170	C	HIS	A	78	-7.082	-11.983	-6.884	1.00	0.00
ATOM	1171	O	HIS	A	78	-8.285	-12.097	-7.119	1.00	0.00
ATOM	1172	CB	HIS	A	78	-5.154	-13.265	-7.836	1.00	0.00
ATOM	1173	CG	HIS	A	78	-4.360	-14.533	-7.856	1.00	0.00
ATOM	1174	ND1	HIS	A	78	-3.378	-14.792	-8.788	1.00	0.00
ATOM	1175	CD2	HIS	A	78	-4.406	-15.620	-7.049	1.00	0.00
ATOM	1176	CE1	HIS	A	78	-2.855	-15.984	-8.555	1.00	0.00
ATOM	1177	NE2	HIS	A	78	-3.461	-16.506	-7.505	1.00	0.00
ATOM	1178	H	HIS	A	78	-6.960	-15.028	-7.498	1.00	0.00
ATOM	1179	HA	HIS	A	78	-5.690	-13.153	-5.768	1.00	0.00
ATOM	1180	1HB	HIS	A	78	-5.652	-13.170	-8.789	1.00	0.00
ATOM	1181	2HB	HIS	A	78	-4.466	-12.442	-7.713	1.00	0.00
ATOM	1182	HD1	HIS	A	78	-3.105	-14.193	-9.513	1.00	0.00
ATOM	1183	HD2	HIS	A	78	-5.065	-15.763	-6.203	1.00	0.00
ATOM	1184	HE1	HIS	A	78	-2.065	-16.449	-9.124	1.00	0.00
ATOM	1185	HE2	HIS	A	78	-3.326	-17.417	-7.170	1.00	0.00
ATOM	1186	N	THR	A	79	-6.477	-10.806	-6.761	1.00	0.00
ATOM	1187	CA	THR	A	79	-7.210	-9.552	-6.897	1.00	0.00
ATOM	1188	C	THR	A	79	-6.257	-8.387	-7.138	1.00	0.00



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ATOM	1189	O	THR	A	79	-5.517	-7.982	-6.241	1.00	0.00
ATOM	1190	CB	THR	A	79	-8.050	-9.290	-5.646	1.00	0.00
ATOM	1191	OG1	THR	A	79	-8.937	-10.367	-5.402	1.00	0.00
ATOM	1192	CG2	THR	A	79	-8.876	-8.026	-5.733	1.00	0.00
ATOM	1193	H	THR	A	79	-5.516	-10.779	-6.574	1.00	0.00
ATOM	1194	HA	THR	A	79	-7.868	-9.645	-7.749	1.00	0.00
ATOM	1195	HB	THR	A	79	-7.390	-9.195	-4.795	1.00	0.00
ATOM	1196	HG1	THR	A	79	-8.537	-10.978	-4.780	1.00	0.00
ATOM	1197	1HG2	THR	A	79	-9.707	-8.090	-5.046	1.00	0.00
ATOM	1198	2HG2	THR	A	79	-9.249	-7.909	-6.741	1.00	0.00
ATOM	1199	3HG2	THR	A	79	-8.261	-7.175	-5.477	1.00	0.00
ATOM	1200	N	GLY	A	80	-6.281	-7.850	-8.353	1.00	0.00
ATOM	1201	CA	GLY	A	80	-5.415	-6.734	-8.689	1.00	0.00
ATOM	1202	C	GLY	A	80	-5.820	-5.455	-7.983	1.00	0.00
ATOM	1203	O	GLY	A	80	-6.823	-4.835	-8.335	1.00	0.00
ATOM	1204	H	GLY	A	80	-6.893	-8.213	-9.027	1.00	0.00
ATOM	1205	1HA	GLY	A	80	-4.403	-6.983	-8.409	1.00	0.00
ATOM	1206	2HA	GLY	A	80	-5.454	-6.572	-9.756	1.00	0.00
ATOM	1207	N	VAL	A	81	-5.038	-5.059	-6.984	1.00	0.00
ATOM	1208	CA	VAL	A	81	-5.320	-3.846	-6.227	1.00	0.00
ATOM	1209	C	VAL	A	81	-5.067	-2.599	-7.069	1.00	0.00
ATOM	1210	O	VAL	A	81	-4.112	-2.543	-7.844	1.00	0.00
ATOM	1211	CB	VAL	A	81	-4.466	-3.772	-4.944	1.00	0.00
ATOM	1212	CG1	VAL	A	81	-4.798	-2.519	-4.145	1.00	0.00
ATOM	1213	CG2	VAL	A	81	-4.669	-5.020	-4.099	1.00	0.00
ATOM	1214	H	VAL	A	81	-4.252	-5.596	-6.751	1.00	0.00
ATOM	1215	HA	VAL	A	81	-6.362	-3.868	-5.940	1.00	0.00

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ATOM	1216	HB	VAL	A	81	-3.426	-3.725	-5.232	1.00	0.00
ATOM	1217	1HG1	VAL	A	81	-4.112	-1.729	-4.411	1.00	0.00
ATOM	1218	2HG1	VAL	A	81	-4.711	-2.732	-3.090	1.00	0.00
ATOM	1219	3HG1	VAL	A	81	-5.809	-2.208	-4.365	1.00	0.00
ATOM	1220	1HG2	VAL	A	81	-3.730	-5.305	-3.647	1.00	0.00
ATOM	1221	2HG2	VAL	A	81	-5.026	-5.825	-4.725	1.00	0.00
ATOM	1222	3HG2	VAL	A	81	-5.394	-4.817	-3.325	1.00	0.00
ATOM	1223	N	ASP	A	82	-5.928	-1.600	-6.905	1.00	0.00
ATOM	1224	CA	ASP	A	82	-5.800	-0.349	-7.641	1.00	0.00
ATOM	1225	C	ASP	A	82	-5.878	0.841	-6.691	1.00	0.00
ATOM	1226	O	ASP	A	82	-6.907	1.512	-6.602	1.00	0.00
ATOM	1227	CB	ASP	A	82	-6.893	-0.244	-8.706	1.00	0.00
ATOM	1228	CG	ASP	A	82	-6.423	0.490	-9.946	1.00	0.00
ATOM	1229	OD1	ASP	A	82	-7.059	0.327	-11.010	1.00	0.00
ATOM	1230	OD2	ASP	A	82	-5.420	1.230	-9.855	1.00	0.00
ATOM	1231	H	ASP	A	82	-6.666	-1.706	-6.269	1.00	0.00
ATOM	1232	HA	ASP	A	82	-4.835	-0.345	-8.125	1.00	0.00
ATOM	1233	1HB	ASP	A	82	-7.204	-1.237	-8.994	1.00	0.00
ATOM	1234	2HB	ASP	A	82	-7.738	0.288	-8.294	1.00	0.00
ATOM	1235	N	SER	A	83	-4.785	1.094	-5.978	1.00	0.00
ATOM	1236	CA	SER	A	83	-4.728	2.197	-5.028	1.00	0.00
ATOM	1237	C	SER	A	83	-3.971	3.388	-5.610	1.00	0.00
ATOM	1238	O	SER	A	83	-3.524	3.353	-6.756	1.00	0.00
ATOM	1239	CB	SER	A	83	-4.070	1.735	-3.727	1.00	0.00
ATOM	1240	OG	SER	A	83	-3.131	0.702	-3.967	1.00	0.00
ATOM	1241	H	SER	A	83	-3.999	0.520	-6.092	1.00	0.00
ATOM	1242	HA	SER	A	83	-5.743	2.502	-4.817	1.00	0.00

ATOM	1243	1HB	SER	A	83	-3.560	2.567	-3.269	1.00	0.00
ATOM	1244	2HB	SER	A	83	-4.829	1.363	-3.054	1.00	0.00
ATOM	1245	HG	SER	A	83	-2.786	0.381	-3.131	1.00	0.00
ATOM	1246	N	LEU	A	84	-3.840	4.444	-4.813	1.00	0.00
ATOM	1247	CA	LEU	A	84	-3.147	5.654	-5.246	1.00	0.00
ATOM	1248	C	LEU	A	84	-2.241	6.187	-4.139	1.00	0.00
ATOM	1249	O	LEU	A	84	-2.716	6.558	-3.065	1.00	0.00
ATOM	1250	CB	LEU	A	84	-4.166	6.726	-5.645	1.00	0.00
ATOM	1251	CG	LEU	A	84	-3.618	7.872	-6.501	1.00	0.00
ATOM	1252	CD1	LEU	A	84	-2.547	8.645	-5.747	1.00	0.00
ATOM	1253	CD2	LEU	A	84	-3.067	7.339	-7.815	1.00	0.00
ATOM	1254	H	LEU	A	84	-4.225	4.413	-3.912	1.00	0.00
ATOM	1255	HA	LEU	A	84	-2.543	5.404	-6.105	1.00	0.00
ATOM	1256	1HB	LEU	A	84	-4.963	6.246	-6.193	1.00	0.00
ATOM	1257	2HB	LEU	A	84	-4.580	7.150	-4.743	1.00	0.00
ATOM	1258	HG	LEU	A	84	-4.423	8.556	-6.730	1.00	0.00
ATOM	1259	1HD1	LEU	A	84	-1.610	8.111	-5.805	1.00	0.00
ATOM	1260	2HD1	LEU	A	84	-2.840	8.749	-4.713	1.00	0.00
ATOM	1261	3HD1	LEU	A	84	-2.431	9.623	-6.188	1.00	0.00
ATOM	1262	1HD2	LEU	A	84	-3.265	8.051	-8.602	1.00	0.00
ATOM	1263	2HD2	LEU	A	84	-3.546	6.400	-8.050	1.00	0.00
ATOM	1264	3HD2	LEU	A	84	-2.002	7.189	-7.724	1.00	0.00
ATOM	1265	N	CYS	A	85	-0.938	6.233	-4.407	1.00	0.00
ATOM	1266	CA	CYS	A	85	0.018	6.735	-3.426	1.00	0.00
ATOM	1267	C	CYS	A	85	-0.084	8.252	-3.314	1.00	0.00
ATOM	1268	O	CYS	A	85	0.696	8.982	-3.927	1.00	0.00
ATOM	1269	CB	CYS	A	85	1.450	6.339	-3.800	1.00	0.00

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ATOM	1270	SG	CYS	A	85	1.619	4.662	-4.454	1.00	0.00
ATOM	1271	H	CYS	A	85	-0.616	5.931	-5.281	1.00	0.00
ATOM	1272	HA	CYS	A	85	-0.231	6.295	-2.471	1.00	0.00
ATOM	1273	1HB	CYS	A	85	1.818	7.020	-4.551	1.00	0.00
ATOM	1274	2HB	CYS	A	85	2.074	6.412	-2.921	1.00	0.00
ATOM	1275	HG	CYS	A	85	1.936	4.097	-3.746	1.00	0.00
ATOM	1276	N	ASN	A	86	-1.053	8.722	-2.534	1.00	0.00
ATOM	1277	CA	ASN	A	86	-1.259	10.153	-2.350	1.00	0.00
ATOM	1278	C	ASN	A	86	-0.101	10.780	-1.579	1.00	0.00
ATOM	1279	O	ASN	A	86	0.224	10.352	-0.472	1.00	0.00
ATOM	1280	CB	ASN	A	86	-2.580	10.408	-1.616	1.00	0.00
ATOM	1281	CG	ASN	A	86	-3.633	11.023	-2.517	1.00	0.00
ATOM	1282	OD1	ASN	A	86	-3.491	12.157	-2.973	1.00	0.00
ATOM	1283	ND2	ASN	A	86	-4.699	10.275	-2.777	1.00	0.00
ATOM	1284	H	ASN	A	86	-1.647	8.090	-2.077	1.00	0.00
ATOM	1285	HA	ASN	A	86	-1.310	10.608	-3.328	1.00	0.00
ATOM	1286	1HB	ASN	A	86	-2.960	9.472	-1.237	1.00	0.00
ATOM	1287	2HB	ASN	A	86	-2.403	11.080	-0.788	1.00	0.00
ATOM	1288	1HD2	ASN	A	86	-4.746	9.381	-2.378	1.00	0.00
ATOM	1289	2HD2	ASN	A	86	-5.396	10.649	-3.356	1.00	0.00
ATOM	1290	N	PHE	A	87	0.515	11.798	-2.171	1.00	0.00
ATOM	1291	CA	PHE	A	87	1.635	12.488	-1.540	1.00	0.00
ATOM	1292	C	PHE	A	87	1.284	13.945	-1.257	1.00	0.00
ATOM	1293	O	PHE	A	87	0.416	14.523	-1.910	1.00	0.00
ATOM	1294	CB	PHE	A	87	2.875	12.417	-2.434	1.00	0.00
ATOM	1295	CG	PHE	A	87	3.737	11.215	-2.170	1.00	0.00
ATOM	1296	CD1	PHE	A	87	5.083	11.363	-1.875	1.00	0.00

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ATOM	1297	CD2	PHE	A	87	3.201	9.939	-2.220	1.00	0.00
ATOM	1298	CE1	PHE	A	87	5.879	10.259	-1.635	1.00	0.00
ATOM	1299	CE2	PHE	A	87	3.992	8.831	-1.980	1.00	0.00
ATOM	1300	CZ	PHE	A	87	5.332	8.991	-1.688	1.00	0.00
ATOM	1301	H	PHE	A	87	0.207	12.095	-3.054	1.00	0.00
ATOM	1302	HA	PHE	A	87	1.846	11.992	-0.605	1.00	0.00
ATOM	1303	1HB	PHE	A	87	2.563	12.381	-3.467	1.00	0.00
ATOM	1304	2HB	PHE	A	87	3.476	13.300	-2.274	1.00	0.00
ATOM	1305	HD1	PHE	A	87	5.511	12.354	-1.835	1.00	0.00
ATOM	1306	HD2	PHE	A	87	2.154	9.812	-2.449	1.00	0.00
ATOM	1307	HE1	PHE	A	87	6.927	10.388	-1.407	1.00	0.00
ATOM	1308	HE2	PHE	A	87	3.563	7.841	-2.022	1.00	0.00
ATOM	1309	HZ	PHE	A	87	5.952	8.127	-1.500	1.00	0.00
ATOM	1310	N	SER	A	88	1.967	14.534	-0.281	1.00	0.00
ATOM	1311	CA	SER	A	88	1.727	15.925	0.086	1.00	0.00
ATOM	1312	C	SER	A	88	2.361	16.870	-0.932	1.00	0.00
ATOM	1313	O	SER	A	88	3.271	16.485	-1.666	1.00	0.00
ATOM	1314	CB	SER	A	88	2.282	16.209	1.484	1.00	0.00
ATOM	1315	OG	SER	A	88	1.285	16.757	2.328	1.00	0.00
ATOM	1316	H	SER	A	88	2.649	14.023	0.204	1.00	0.00
ATOM	1317	HA	SER	A	88	0.660	16.086	0.092	1.00	0.00
ATOM	1318	1HB	SER	A	88	2.639	15.289	1.922	1.00	0.00
ATOM	1319	2HB	SER	A	88	3.100	16.912	1.411	1.00	0.00
ATOM	1320	HG	SER	A	88	0.469	16.262	2.222	1.00	0.00
ATOM	1321	N	PRO	A	89	1.887	18.127	-0.989	1.00	0.00
ATOM	1322	CA	PRO	A	89	2.413	19.128	-1.923	1.00	0.00
ATOM	1323	C	PRO	A	89	3.846	19.537	-1.596	1.00	0.00

ATOM 1324	O	PRO A	89	4.527	20.151	-2.417	1.00	0.00
ATOM 1325	CB	PRO A	89	1.463	20.316	-1.748	1.00	0.00
ATOM 1326	CG	PRO A	89	0.894	20.151	-0.381	1.00	0.00
ATOM 1327	CD	PRO A	89	0.804	18.669	-0.148	1.00	0.00
ATOM 1328	HA	PRO A	89	2.366	18.775	-2.944	1.00	0.00
ATOM 1329	1HB	PRO A	89	2.018	21.239	-1.837	1.00	0.00
ATOM 1330	2HB	PRO A	89	0.693	20.279	-2.503	1.00	0.00
ATOM 1331	1HG	PRO A	89	1.549	20.608	0.346	1.00	0.00
ATOM 1332	2HG	PRO A	89	-0.089	20.598	-0.337	1.00	0.00
ATOM 1333	1HD	PRO A	89	0.973	18.441	0.894	1.00	0.00
ATOM 1334	2HD	PRO A	89	-0.157	18.294	-0.467	1.00	0.00
ATOM 1335	N	LEU A	90	4.299	19.196	-0.393	1.00	0.00
ATOM 1336	CA	LEU A	90	5.653	19.531	0.038	1.00	0.00
ATOM 1337	C	LEU A	90	6.689	18.724	-0.738	1.00	0.00
ATOM 1338	O	LEU A	90	7.780	19.214	-1.029	1.00	0.00
ATOM 1339	CB	LEU A	90	5.810	19.278	1.538	1.00	0.00
ATOM 1340	CG	LEU A	90	4.993	20.204	2.439	1.00	0.00
ATOM 1341	CD1	LEU A	90	3.537	19.768	2.472	1.00	0.00
ATOM 1342	CD2	LEU A	90	5.576	20.230	3.844	1.00	0.00
ATOM 1343	H	LEU A	90	3.712	18.707	0.220	1.00	0.00
ATOM 1344	HA	LEU A	90	5.810	20.581	-0.160	1.00	0.00
ATOM 1345	1HB	LEU A	90	5.517	18.259	1.743	1.00	0.00
ATOM 1346	2HB	LEU A	90	6.852	19.394	1.793	1.00	0.00
ATOM 1347	HG	LEU A	90	5.031	21.209	2.042	1.00	0.00
ATOM 1348	1HD1	LEU A	90	3.036	20.116	1.581	1.00	0.00
ATOM 1349	2HD1	LEU A	90	3.055	20.188	3.343	1.00	0.00
ATOM 1350	3HD1	LEU A	90	3.485	18.691	2.517	1.00	0.00

ATOM	1351	1HD2	LEU	A	90	5.489	21.226	4.253	1.00	0.00
ATOM	1352	2HD2	LEU	A	90	6.617	19.947	3.807	1.00	0.00
ATOM	1353	3HD2	LEU	A	90	5.037	19.535	4.471	1.00	0.00
ATOM	1354	N	ALA	A	91	6.342	17.484	-1.071	1.00	0.00
ATOM	1355	CA	ALA	A	91	7.244	16.611	-1.812	1.00	0.00
ATOM	1356	C	ALA	A	91	7.640	17.236	-3.146	1.00	0.00
ATOM	1357	O	ALA	A	91	7.183	18.326	-3.491	1.00	0.00
ATOM	1358	CB	ALA	A	91	6.599	15.250	-2.034	1.00	0.00
ATOM	1359	H	ALA	A	91	5.459	17.149	-0.811	1.00	0.00
ATOM	1360	HA	ALA	A	91	8.134	16.468	-1.216	1.00	0.00
ATOM	1361	1HB	ALA	A	91	7.094	14.514	-1.420	1.00	0.00
ATOM	1362	2HB	ALA	A	91	6.690	14.972	-3.074	1.00	0.00
ATOM	1363	3HB	ALA	A	91	5.554	15.300	-1.765	1.00	0.00
ATOM	1364	N	ARG	A	92	8.491	16.540	-3.893	1.00	0.00
ATOM	1365	CA	ARG	A	92	8.947	17.028	-5.191	1.00	0.00
ATOM	1366	C	ARG	A	92	9.935	16.054	-5.826	1.00	0.00
ATOM	1367	O	ARG	A	92	9.928	15.854	-7.041	1.00	0.00
ATOM	1368	CB	ARG	A	92	9.600	18.406	-5.043	1.00	0.00
ATOM	1369	CG	ARG	A	92	9.265	19.360	-6.176	1.00	0.00
ATOM	1370	CD	ARG	A	92	10.435	20.278	-6.494	1.00	0.00
ATOM	1371	NE	ARG	A	92	10.934	20.961	-5.303	1.00	0.00
ATOM	1372	CZ	ARG	A	92	10.306	21.974	-4.712	1.00	0.00
ATOM	1373	NH1	ARG	A	92	9.156	22.426	-5.198	1.00	0.00
ATOM	1374	NH2	ARG	A	92	10.828	22.539	-3.631	1.00	0.00
ATOM	1375	H	ARG	A	92	8.820	15.677	-3.565	1.00	0.00
ATOM	1376	HA	ARG	A	92	8.084	17.116	-5.833	1.00	0.00
ATOM	1377	1HB	ARG	A	92	9.269	18.850	-4.116	1.00	0.00

ATOM	1378	2HB	ARG	A	92	10.672	18.282	-5.010	1.00	0.00
ATOM	1379	1HG	ARG	A	92	9.021	18.788	-7.058	1.00	0.00
ATOM	1380	2HG	ARG	A	92	8.415	19.962	-5.888	1.00	0.00
ATOM	1381	1HD	ARG	A	92	11.233	19.688	-6.919	1.00	0.00
ATOM	1382	2HD	ARG	A	92	10.112	21.016	-7.213	1.00	0.00
ATOM	1383	HE	ARG	A	92	11.782	20.649	-4.924	1.00	0.00
ATOM	1384	1HH1	ARG	A	92	8.756	22.005	-6.013	1.00	0.00
ATOM	1385	2HH1	ARG	A	92	8.688	23.187	-4.749	1.00	0.00
ATOM	1386	1HH2	ARG	A	92	11.694	22.203	-3.262	1.00	0.00
ATOM	1387	2HH2	ARG	A	92	10.356	23.300	-3.187	1.00	0.00
ATOM	1388	N	ARG	A	93	10.787	15.455	-5.001	1.00	0.00
ATOM	1389	CA	ARG	A	93	11.783	14.507	-5.486	1.00	0.00
ATOM	1390	C	ARG	A	93	11.335	13.066	-5.256	1.00	0.00
ATOM	1391	O	ARG	A	93	12.157	12.179	-5.031	1.00	0.00
ATOM	1392	CB	ARG	A	93	13.128	14.756	-4.798	1.00	0.00
ATOM	1393	CG	ARG	A	93	14.156	15.424	-5.698	1.00	0.00
ATOM	1394	CD	ARG	A	93	14.235	16.921	-5.441	1.00	0.00
ATOM	1395	NE	ARG	A	93	15.615	17.403	-5.439	1.00	0.00
ATOM	1396	CZ	ARG	A	93	16.450	17.256	-4.413	1.00	0.00
ATOM	1397	NH1	ARG	A	93	16.051	16.642	-3.306	1.00	0.00
ATOM	1398	NH2	ARG	A	93	17.688	17.723	-4.495	1.00	0.00
ATOM	1399	H	ARG	A	93	10.747	15.658	-4.043	1.00	0.00
ATOM	1400	HA	ARG	A	93	11.900	14.668	-6.548	1.00	0.00
ATOM	1401	1HB	ARG	A	93	12.968	15.391	-3.939	1.00	0.00
ATOM	1402	2HB	ARG	A	93	13.533	13.812	-4.465	1.00	0.00
ATOM	1403	1HG	ARG	A	93	15.124	14.986	-5.510	1.00	0.00
ATOM	1404	2HG	ARG	A	93	13.877	15.260	-6.729	1.00	0.00



ATOM	1405	1HD	ARG	A	93	13.685	17.436	-6.214	1.00	0.00
ATOM	1406	2HD	ARG	A	93	13.789	17.133	-4.480	1.00	0.00
ATOM	1407	HE	ARG	A	93	15.935	17.860	-6.244	1.00	0.00
ATOM	1408	1HH1	ARG	A	93	15.118	16.287	-3.238	1.00	0.00
ATOM	1409	2HH1	ARG	A	93	16.684	16.534	-2.539	1.00	0.00
ATOM	1410	1HH2	ARG	A	93	17.994	18.187	-5.325	1.00	0.00
ATOM	1411	2HH2	ARG	A	93	18.316	17.613	-3.724	1.00	0.00
ATOM	1412	N	VAL	A	94	10.026	12.837	-5.317	1.00	0.00
ATOM	1413	CA	VAL	A	94	9.478	11.500	-5.117	1.00	0.00
ATOM	1414	C	VAL	A	94	9.441	10.725	-6.430	1.00	0.00
ATOM	1415	O	VAL	A	94	9.119	11.280	-7.481	1.00	0.00
ATOM	1416	CB	VAL	A	94	8.056	11.551	-4.526	1.00	0.00
ATOM	1417	CG1	VAL	A	94	7.612	10.164	-4.089	1.00	0.00
ATOM	1418	CG2	VAL	A	94	7.992	12.529	-3.363	1.00	0.00
ATOM	1419	H	VAL	A	94	9.418	13.582	-5.502	1.00	0.00
ATOM	1420	HA	VAL	A	94	10.117	10.978	-4.420	1.00	0.00
ATOM	1421	HB	VAL	A	94	7.380	11.895	-5.296	1.00	0.00
ATOM	1422	1HG1	VAL	A	94	8.025	9.943	-3.116	1.00	0.00
ATOM	1423	2HG1	VAL	A	94	7.960	9.432	-4.803	1.00	0.00
ATOM	1424	3HG1	VAL	A	94	6.533	10.131	-4.038	1.00	0.00
ATOM	1425	1HG2	VAL	A	94	6.959	12.764	-3.147	1.00	0.00
ATOM	1426	2HG2	VAL	A	94	8.520	13.434	-3.623	1.00	0.00
ATOM	1427	3HG2	VAL	A	94	8.449	12.082	-2.492	1.00	0.00
ATOM	1428	N	ASP	A	95	9.772	9.440	-6.364	1.00	0.00
ATOM	1429	CA	ASP	A	95	9.776	8.590	-7.549	1.00	0.00
ATOM	1430	C	ASP	A	95	8.972	7.316	-7.310	1.00	0.00
ATOM	1431	O	ASP	A	95	8.804	6.880	-6.171	1.00	0.00

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ATOM	1432	CB	ASP	A	95	11.212	8.237	-7.944	1.00	0.00
ATOM	1433	CG	ASP	A	95	11.748	9.138	-9.038	1.00	0.00
ATOM	1434	OD1	ASP	A	95	12.632	8.687	-9.798	1.00	0.00
ATOM	1435	OD2	ASP	A	95	11.286	10.294	-9.136	1.00	0.00
ATOM	1436	H	ASP	A	95	10.020	9.054	-5.498	1.00	0.00
ATOM	1437	HA	ASP	A	95	9.318	9.144	-8.355	1.00	0.00
ATOM	1438	1HB	ASP	A	95	11.850	8.334	-7.079	1.00	0.00
ATOM	1439	2HB	ASP	A	95	11.241	7.215	-8.296	1.00	0.00
ATOM	1440	N	ARG	A	96	8.477	6.725	-8.392	1.00	0.00
ATOM	1441	CA	ARG	A	96	7.690	5.499	-8.302	1.00	0.00
ATOM	1442	C	ARG	A	96	8.489	4.384	-7.636	1.00	0.00
ATOM	1443	O	ARG	A	96	7.925	3.514	-6.972	1.00	0.00
ATOM	1444	CB	ARG	A	96	7.235	5.054	-9.694	1.00	0.00
ATOM	1445	CG	ARG	A	96	8.320	5.161	-10.756	1.00	0.00
ATOM	1446	CD	ARG	A	96	8.062	6.316	-11.711	1.00	0.00
ATOM	1447	NE	ARG	A	96	9.185	7.249	-11.759	1.00	0.00
ATOM	1448	CZ	ARG	A	96	10.297	7.036	-12.459	1.00	0.00
ATOM	1449	NH1	ARG	A	96	10.438	5.925	-13.171	1.00	0.00
ATOM	1450	NH2	ARG	A	96	11.270	7.936	-12.446	1.00	0.00
ATOM	1451	H	ARG	A	96	8.645	7.121	-9.272	1.00	0.00
ATOM	1452	HA	ARG	A	96	6.819	5.710	-7.699	1.00	0.00
ATOM	1453	1HB	ARG	A	96	6.914	4.024	-9.642	1.00	0.00
ATOM	1454	2HB	ARG	A	96	6.399	5.667	-9.999	1.00	0.00
ATOM	1455	1HG	ARG	A	96	9.271	5.316	-10.269	1.00	0.00
ATOM	1456	2HG	ARG	A	96	8.349	4.239	-11.319	1.00	0.00
ATOM	1457	1HD	ARG	A	96	7.896	5.917	-12.700	1.00	0.00
ATOM	1458	2HD	ARG	A	96	7.179	6.847	-11.386	1.00	0.00

ATOM 1459	HE	ARG	A	96	9.107	8.078	-11.241	1.00	0.00
ATOM 1460	1HH1	ARG	A	96	9.707	5.242	-13.185	1.00	0.00
ATOM 1461	2HH1	ARG	A	96	11.276	5.771	-13.696	1.00	0.00
ATOM 1462	1HH2	ARG	A	96	11.169	8.774	-11.911	1.00	0.00
ATOM 1463	2HH2	ARG	A	96	12.106	7.776	-12.972	1.00	0.00
ATOM 1464	N	VAL	A	97	9.805	4.415	-7.817	1.00	0.00
ATOM 1465	CA	VAL	A	97	10.681	3.406	-7.233	1.00	0.00
ATOM 1466	C	VAL	A	97	10.718	3.522	-5.714	1.00	0.00
ATOM 1467	O	VAL	A	97	10.904	2.530	-5.009	1.00	0.00
ATOM 1468	CB	VAL	A	97	12.116	3.523	-7.780	1.00	0.00
ATOM 1469	CG1	VAL	A	97	12.962	2.346	-7.320	1.00	0.00
ATOM 1470	CG2	VAL	A	97	12.102	3.617	-9.298	1.00	0.00
ATOM 1471	H	VAL	A	97	10.197	5.134	-8.356	1.00	0.00
ATOM 1472	HA	VAL	A	97	10.294	2.434	-7.501	1.00	0.00
ATOM 1473	HB	VAL	A	97	12.556	4.428	-7.389	1.00	0.00
ATOM 1474	1HG1	VAL	A	97	12.512	1.901	-6.444	1.00	0.00
ATOM 1475	2HG1	VAL	A	97	13.957	2.689	-7.078	1.00	0.00
ATOM 1476	3HG1	VAL	A	97	13.016	1.611	-8.109	1.00	0.00
ATOM 1477	1HG2	VAL	A	97	12.970	3.114	-9.699	1.00	0.00
ATOM 1478	2HG2	VAL	A	97	12.121	4.655	-9.595	1.00	0.00
ATOM 1479	3HG2	VAL	A	97	11.207	3.149	-9.680	1.00	0.00
ATOM 1480	N	ALA	A	98	10.541	4.741	-5.212	1.00	0.00
ATOM 1481	CA	ALA	A	98	10.554	4.985	-3.775	1.00	0.00
ATOM 1482	C	ALA	A	98	9.436	4.220	-3.076	1.00	0.00
ATOM 1483	O	ALA	A	98	9.694	3.348	-2.246	1.00	0.00
ATOM 1484	CB	ALA	A	98	10.430	6.475	-3.493	1.00	0.00
ATOM 1485	H	ALA	A	98	10.397	5.493	-5.824	1.00	0.00

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ATOM	1486	HA	ALA	A	98	11.504	4.649	-3.389	1.00	0.00
ATOM	1487	1HB	ALA	A	98	11.138	7.017	-4.103	1.00	0.00
ATOM	1488	2HB	ALA	A	98	10.637	6.662	-2.450	1.00	0.00
ATOM	1489	3HB	ALA	A	98	9.428	6.803	-3.726	1.00	0.00
ATOM	1490	N	ILE	A	99	8.195	4.550	-3.417	1.00	0.00
ATOM	1491	CA	ILE	A	99	7.039	3.891	-2.822	1.00	0.00
ATOM	1492	C	ILE	A	99	7.004	2.408	-3.182	1.00	0.00
ATOM	1493	O	ILE	A	99	6.400	1.602	-2.475	1.00	0.00
ATOM	1494	CB	ILE	A	99	5.718	4.551	-3.271	1.00	0.00
ATOM	1495	CG1	ILE	A	99	5.768	6.061	-3.031	1.00	0.00
ATOM	1496	CG2	ILE	A	99	4.538	3.934	-2.535	1.00	0.00
ATOM	1497	CD1	ILE	A	99	4.940	6.857	-4.017	1.00	0.00
ATOM	1498	H	ILE	A	99	8.054	5.252	-4.086	1.00	0.00
ATOM	1499	HA	ILE	A	99	7.117	3.987	-1.749	1.00	0.00
ATOM	1500	HB	ILE	A	99	5.588	4.366	-4.327	1.00	0.00
ATOM	1501	1HG1	ILE	A	99	5.397	6.275	-2.041	1.00	0.00
ATOM	1502	2HG1	ILE	A	99	6.792	6.399	-3.108	1.00	0.00
ATOM	1503	1HG2	ILE	A	99	3.721	4.639	-2.509	1.00	0.00
ATOM	1504	2HG2	ILE	A	99	4.833	3.687	-1.525	1.00	0.00
ATOM	1505	3HG2	ILE	A	99	4.223	3.036	-3.047	1.00	0.00
ATOM	1506	1HD1	ILE	A	99	5.288	7.879	-4.038	1.00	0.00
ATOM	1507	2HD1	ILE	A	99	3.903	6.835	-3.716	1.00	0.00
ATOM	1508	3HD1	ILE	A	99	5.038	6.423	-5.001	1.00	0.00
ATOM	1509	N	TYR	A	100	7.653	2.054	-4.288	1.00	0.00
ATOM	1510	CA	TYR	A	100	7.694	0.669	-4.741	1.00	0.00
ATOM	1511	C	TYR	A	100	8.648	-0.161	-3.886	1.00	0.00
ATOM	1512	O	TYR	A	100	8.331	-1.283	-3.494	1.00	0.00

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ATOM	1513	CB	TYR A 100	8.123	0.603	-6.207	1.00	0.00
ATOM	1514	CG	TYR A 100	8.046	-0.785	-6.802	1.00	0.00
ATOM	1515	CD1	TYR A 100	9.198	-1.465	-7.175	1.00	0.00
ATOM	1516	CD2	TYR A 100	6.822	-1.414	-6.989	1.00	0.00
ATOM	1517	CE1	TYR A 100	9.132	-2.735	-7.719	1.00	0.00
ATOM	1518	CE2	TYR A 100	6.748	-2.683	-7.532	1.00	0.00
ATOM	1519	CZ	TYR A 100	7.906	-3.339	-7.895	1.00	0.00
ATOM	1520	OH	TYR A 100	7.836	-4.602	-8.435	1.00	0.00
ATOM	1521	H	TYR A 100	8.115	2.740	-4.812	1.00	0.00
ATOM	1522	HA	TYR A 100	6.699	0.260	-4.649	1.00	0.00
ATOM	1523	1HB	TYR A 100	7.485	1.249	-6.791	1.00	0.00
ATOM	1524	2HB	TYR A 100	9.145	0.944	-6.291	1.00	0.00
ATOM	1525	HD1	TYR A 100	10.158	-0.990	-7.036	1.00	0.00
ATOM	1526	HD2	TYR A 100	5.918	-0.898	-6.704	1.00	0.00
ATOM	1527	HE1	TYR A 100	10.039	-3.248	-8.003	1.00	0.00
ATOM	1528	HE2	TYR A 100	5.787	-3.155	-7.669	1.00	0.00
ATOM	1529	HH	TYR A 100	7.154	-4.624	-9.111	1.00	0.00
ATOM	1530	N	GLU A 101	9.821	0.397	-3.607	1.00	0.00
ATOM	1531	CA	GLU A 101	10.825	-0.294	-2.806	1.00	0.00
ATOM	1532	C	GLU A 101	10.445	-0.299	-1.328	1.00	0.00
ATOM	1533	O	GLU A 101	10.437	-1.348	-0.683	1.00	0.00
ATOM	1534	CB	GLU A 101	12.194	0.365	-2.988	1.00	0.00
ATOM	1535	CG	GLU A 101	12.973	-0.174	-4.177	1.00	0.00
ATOM	1536	CD	GLU A 101	14.422	-0.466	-3.841	1.00	0.00
ATOM	1537	OE1	GLU A 101	15.077	0.405	-3.229	1.00	0.00
ATOM	1538	OE2	GLU A 101	14.903	-1.564	-4.189	1.00	0.00
ATOM	1539	H	GLU A 101	10.019	1.294	-3.952	1.00	0.00

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ATOM 1540	HA	GLU A 101	10.879	-1.315	-3.153	1.00	0.00
ATOM 1541	1HB	GLU A 101	12.053	1.426	-3.128	1.00	0.00
ATOM 1542	2HB	GLU A 101	12.781	0.202	-2.097	1.00	0.00
ATOM 1543	1HG	GLU A 101	12.507	-1.087	-4.514	1.00	0.00
ATOM 1544	2HG	GLU A 101	12.943	0.558	-4.971	1.00	0.00
ATOM 1545	N	GLU A 102	10.136	0.878	-0.795	1.00	0.00
ATOM 1546	CA	GLU A 102	9.762	1.010	0.609	1.00	0.00
ATOM 1547	C	GLU A 102	8.549	0.144	0.943	1.00	0.00
ATOM 1548	O	GLU A 102	8.388	-0.299	2.080	1.00	0.00
ATOM 1549	CB	GLU A 102	9.468	2.474	0.942	1.00	0.00
ATOM 1550	CG	GLU A 102	10.597	3.166	1.688	1.00	0.00
ATOM 1551	CD	GLU A 102	10.800	4.600	1.238	1.00	0.00
ATOM 1552	OE1	GLU A 102	11.156	4.809	0.059	1.00	0.00
ATOM 1553	OE2	GLU A 102	10.602	5.514	2.065	1.00	0.00
ATOM 1554	H	GLU A 102	10.165	1.680	-1.358	1.00	0.00
ATOM 1555	HA	GLU A 102	10.599	0.678	1.204	1.00	0.00
ATOM 1556	1HB	GLU A 102	9.289	3.012	0.023	1.00	0.00
ATOM 1557	2HB	GLU A 102	8.579	2.522	1.554	1.00	0.00
ATOM 1558	1HG	GLU A 102	10.369	3.166	2.743	1.00	0.00
ATOM 1559	2HG	GLU A 102	11.512	2.619	1.517	1.00	0.00
ATOM 1560	N	PHE A 103	7.699	-0.091	-0.050	1.00	0.00
ATOM 1561	CA	PHE A 103	6.502	-0.902	0.147	1.00	0.00
ATOM 1562	C	PHE A 103	6.842	-2.388	0.185	1.00	0.00
ATOM 1563	O	PHE A 103	6.568	-3.072	1.171	1.00	0.00
ATOM 1564	CB	PHE A 103	5.487	-0.628	-0.966	1.00	0.00
ATOM 1565	CG	PHE A 103	4.205	-1.397	-0.813	1.00	0.00
ATOM 1566	CD1	PHE A 103	3.387	-1.191	0.286	1.00	0.00

ATOM 1567	CD2	PHE A 103	3.821	-2.324	-1.767	1.00	0.00
ATOM 1568	CE1	PHE A 103	2.207	-1.898	0.430	1.00	0.00
ATOM 1569	CE2	PHE A 103	2.643	-3.033	-1.630	1.00	0.00
ATOM 1570	CZ	PHE A 103	1.835	-2.820	-0.530	1.00	0.00
ATOM 1571	H	PHE A 103	7.877	0.291	-0.935	1.00	0.00
ATOM 1572	HA	PHE A 103	6.066	-0.621	1.094	1.00	0.00
ATOM 1573	1HB	PHE A 103	5.243	0.424	-0.970	1.00	0.00
ATOM 1574	2HB	PHE A 103	5.925	-0.895	-1.916	1.00	0.00
ATOM 1575	HD1	PHE A 103	3.676	-0.471	1.037	1.00	0.00
ATOM 1576	HD2	PHE A 103	4.452	-2.492	-2.628	1.00	0.00
ATOM 1577	HE1	PHE A 103	1.578	-1.729	1.290	1.00	0.00
ATOM 1578	HE2	PHE A 103	2.354	-3.753	-2.381	1.00	0.00
ATOM 1579	HZ	PHE A 103	0.913	-3.373	-0.420	1.00	0.00
ATOM 1580	N	LEU A 104	7.438	-2.882	-0.895	1.00	0.00
ATOM 1581	CA	LEU A 104	7.812	-4.291	-0.988	1.00	0.00
ATOM 1582	C	LEU A 104	8.717	-4.700	0.170	1.00	0.00
ATOM 1583	O	LEU A 104	8.586	-5.796	0.715	1.00	0.00
ATOM 1584	CB	LEU A 104	8.514	-4.565	-2.319	1.00	0.00
ATOM 1585	CG	LEU A 104	7.686	-4.254	-3.567	1.00	0.00
ATOM 1586	CD1	LEU A 104	8.551	-4.334	-4.815	1.00	0.00
ATOM 1587	CD2	LEU A 104	6.505	-5.208	-3.673	1.00	0.00
ATOM 1588	H	LEU A 104	7.628	-2.288	-1.651	1.00	0.00
ATOM 1589	HA	LEU A 104	6.906	-4.876	-0.944	1.00	0.00
ATOM 1590	1HB	LEU A 104	9.417	-3.972	-2.354	1.00	0.00
ATOM 1591	2HB	LEU A 104	8.789	-5.609	-2.348	1.00	0.00
ATOM 1592	HG	LEU A 104	7.299	-3.249	-3.493	1.00	0.00
ATOM 1593	1HD1	LEU A 104	8.937	-3.353	-5.048	1.00	0.00

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ATOM	1594	2HD1	LEU	A	104	7.957	-4.693	-5.642	1.00	0.00
ATOM	1595	3HD1	LEU	A	104	9.373	-5.012	-4.641	1.00	0.00
ATOM	1596	1HD2	LEU	A	104	5.887	-4.924	-4.511	1.00	0.00
ATOM	1597	2HD2	LEU	A	104	5.923	-5.163	-2.764	1.00	0.00
ATOM	1598	3HD2	LEU	A	104	6.868	-6.215	-3.819	1.00	0.00
ATOM	1599	N	ARG	A	105	9.639	-3.816	0.537	1.00	0.00
ATOM	1600	CA	ARG	A	105	10.570	-4.090	1.627	1.00	0.00
ATOM	1601	C	ARG	A	105	9.835	-4.243	2.956	1.00	0.00
ATOM	1602	O	ARG	A	105	10.299	-4.945	3.855	1.00	0.00
ATOM	1603	CB	ARG	A	105	11.606	-2.969	1.733	1.00	0.00
ATOM	1604	CG	ARG	A	105	12.960	-3.442	2.240	1.00	0.00
ATOM	1605	CD	ARG	A	105	13.404	-2.658	3.465	1.00	0.00
ATOM	1606	NE	ARG	A	105	14.554	-3.275	4.122	1.00	0.00
ATOM	1607	CZ	ARG	A	105	14.483	-4.388	4.850	1.00	0.00
ATOM	1608	NH1	ARG	A	105	13.322	-5.009	5.014	1.00	0.00
ATOM	1609	NH2	ARG	A	105	15.578	-4.882	5.414	1.00	0.00
ATOM	1610	H	ARG	A	105	9.697	-2.961	0.062	1.00	0.00
ATOM	1611	HA	ARG	A	105	11.077	-5.016	1.404	1.00	0.00
ATOM	1612	1HB	ARG	A	105	11.744	-2.530	0.756	1.00	0.00
ATOM	1613	2HB	ARG	A	105	11.234	-2.214	2.409	1.00	0.00
ATOM	1614	1HG	ARG	A	105	12.892	-4.487	2.500	1.00	0.00
ATOM	1615	2HG	ARG	A	105	13.692	-3.311	1.455	1.00	0.00
ATOM	1616	1HD	ARG	A	105	13.672	-1.658	3.159	1.00	0.00
ATOM	1617	2HD	ARG	A	105	12.583	-2.613	4.164	1.00	0.00
ATOM	1618	HE	ARG	A	105	15.424	-2.838	4.017	1.00	0.00
ATOM	1619	1HH1	ARG	A	105	12.493	-4.642	4.592	1.00	0.00
ATOM	1620	2HH1	ARG	A	105	13.275	-5.844	5.562	1.00	0.00



ATOM 1621	1HH2	ARG	A	105	16.455	-4.420	5.292	1.00	0.00
ATOM 1622	2HH2	ARG	A	105	15.524	-5.718	5.960	1.00	0.00
ATOM 1623	N	MET	A	106	8.689	-3.580	3.078	1.00	0.00
ATOM 1624	CA	MET	A	106	7.897	-3.644	4.302	1.00	0.00
ATOM 1625	C	MET	A	106	6.938	-4.830	4.281	1.00	0.00
ATOM 1626	O	MET	A	106	6.545	-5.338	5.331	1.00	0.00
ATOM 1627	CB	MET	A	106	7.113	-2.345	4.494	1.00	0.00
ATOM 1628	CG	MET	A	106	6.708	-2.089	5.937	1.00	0.00
ATOM 1629	SD	MET	A	106	7.678	-0.784	6.713	1.00	0.00
ATOM 1630	CE	MET	A	106	6.598	0.626	6.478	1.00	0.00
ATOM 1631	H	MET	A	106	8.370	-3.033	2.330	1.00	0.00
ATOM 1632	HA	MET	A	106	8.579	-3.764	5.130	1.00	0.00
ATOM 1633	1HB	MET	A	106	7.721	-1.517	4.160	1.00	0.00
ATOM 1634	2HB	MET	A	106	6.216	-2.387	3.893	1.00	0.00
ATOM 1635	1HG	MET	A	106	5.667	-1.805	5.958	1.00	0.00
ATOM 1636	2HG	MET	A	106	6.841	-3.001	6.500	1.00	0.00
ATOM 1637	1HE	MET	A	106	7.193	1.520	6.362	1.00	0.00
ATOM 1638	2HE	MET	A	106	5.951	0.731	7.335	1.00	0.00
ATOM 1639	3HE	MET	A	106	6.000	0.476	5.591	1.00	0.00
ATOM 1640	N	THR	A	107	6.561	-5.266	3.084	1.00	0.00
ATOM 1641	CA	THR	A	107	5.643	-6.392	2.937	1.00	0.00
ATOM 1642	C	THR	A	107	6.404	-7.703	2.766	1.00	0.00
ATOM 1643	O	THR	A	107	6.049	-8.535	1.930	1.00	0.00
ATOM 1644	CB	THR	A	107	4.717	-6.170	1.739	1.00	0.00
ATOM 1645	OG1	THR	A	107	5.385	-6.470	0.529	1.00	0.00
ATOM 1646	CG2	THR	A	107	4.194	-4.753	1.637	1.00	0.00
ATOM 1647	H	THR	A	107	6.903	-4.820	2.281	1.00	0.00

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ATOM 1648	HA	THR A 107	5.046	-6.450	3.835	1.00	0.00
ATOM 1649	HB	THR A 107	3.867	-6.831	1.830	1.00	0.00
ATOM 1650	HG1	THR A 107	5.512	-7.420	0.460	1.00	0.00
ATOM 1651	1HG2	THR A 107	4.688	-4.246	0.821	1.00	0.00
ATOM 1652	2HG2	THR A 107	4.393	-4.228	2.560	1.00	0.00
ATOM 1653	3HG2	THR A 107	3.130	-4.773	1.456	1.00	0.00
ATOM 1654	N	HIS A 108	7.453	-7.885	3.564	1.00	0.00
ATOM 1655	CA	HIS A 108	8.262	-9.099	3.501	1.00	0.00
ATOM 1656	C	HIS A 108	8.771	-9.342	2.081	1.00	0.00
ATOM 1657	O	HIS A 108	8.604	-10.428	1.525	1.00	0.00
ATOM 1658	CB	HIS A 108	7.447	-10.302	3.985	1.00	0.00
ATOM 1659	CG	HIS A 108	7.696	-10.654	5.419	1.00	0.00
ATOM 1660	ND1	HIS A 108	7.923	-11.946	5.848	1.00	0.00
ATOM 1661	CD2	HIS A 108	7.755	-9.877	6.526	1.00	0.00
ATOM 1662	CE1	HIS A 108	8.109	-11.947	7.155	1.00	0.00
ATOM 1663	NE2	HIS A 108	8.013	-10.704	7.591	1.00	0.00
ATOM 1664	H	HIS A 108	7.687	-7.188	4.211	1.00	0.00
ATOM 1665	HA	HIS A 108	9.110	-8.963	4.155	1.00	0.00
ATOM 1666	1HB	HIS A 108	6.396	-10.085	3.875	1.00	0.00
ATOM 1667	2HB	HIS A 108	7.697	-11.163	3.383	1.00	0.00
ATOM 1668	HD1	HIS A 108	7.944	-12.743	5.277	1.00	0.00
ATOM 1669	HD2	HIS A 108	7.623	-8.805	6.564	1.00	0.00
ATOM 1670	HE1	HIS A 108	8.308	-12.816	7.764	1.00	0.00
ATOM 1671	HE2	HIS A 108	8.199	-10.411	8.508	1.00	0.00
ATOM 1672	N	ASN A 109	9.397	-8.323	1.501	1.00	0.00
ATOM 1673	CA	ASN A 109	9.935	-8.421	0.148	1.00	0.00
ATOM 1674	C	ASN A 109	8.825	-8.673	-0.869	1.00	0.00

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ATOM 1675	O	ASN A 109	8.936	-9.557	-1.719	1.00	0.00
ATOM 1676	CB	ASN A 109	10.978	-9.538	0.072	1.00	0.00
ATOM 1677	CG	ASN A 109	12.217	-9.228	0.889	1.00	0.00
ATOM 1678	OD1	ASN A 109	12.826	-8.170	0.738	1.00	0.00
ATOM 1679	ND2	ASN A 109	12.597	-10.155	1.762	1.00	0.00
ATOM 1680	H	ASN A 109	9.501	-7.482	1.996	1.00	0.00
ATOM 1681	HA	ASN A 109	10.413	-7.481	-0.085	1.00	0.00
ATOM 1682	1HB	ASN A 109	10.545	-10.454	0.444	1.00	0.00
ATOM 1683	2HB	ASN A 109	11.274	-9.676	-0.957	1.00	0.00
ATOM 1684	1HD2	ASN A 109	12.063	-10.975	1.829	1.00	0.00
ATOM 1685	2HD2	ASN A 109	13.395	-9.981	2.304	1.00	0.00
ATOM 1686	N	GLY A 110	7.756	-7.886	-0.781	1.00	0.00
ATOM 1687	CA	GLY A 110	6.646	-8.037	-1.704	1.00	0.00
ATOM 1688	C	GLY A 110	6.031	-9.423	-1.659	1.00	0.00
ATOM 1689	O	GLY A 110	5.689	-9.991	-2.696	1.00	0.00
ATOM 1690	H	GLY A 110	7.724	-7.195	-0.087	1.00	0.00
ATOM 1691	1HA	GLY A 110	5.887	-7.310	-1.461	1.00	0.00
ATOM 1692	2HA	GLY A 110	7.000	-7.847	-2.707	1.00	0.00
ATOM 1693	N	THR A 111	5.892	-9.971	-0.456	1.00	0.00
ATOM 1694	CA	THR A 111	5.316	-11.300	-0.288	1.00	0.00
ATOM 1695	C	THR A 111	4.122	-11.272	0.662	1.00	0.00
ATOM 1696	O	THR A 111	3.135	-11.975	0.449	1.00	0.00
ATOM 1697	CB	THR A 111	6.373	-12.274	0.233	1.00	0.00
ATOM 1698	OG1	THR A 111	6.671	-12.011	1.592	1.00	0.00
ATOM 1699	CG2	THR A 111	7.671	-12.220	-0.542	1.00	0.00
ATOM 1700	H	THR A 111	6.185	-9.471	0.334	1.00	0.00
ATOM 1701	HA	THR A 111	4.979	-11.638	-1.257	1.00	0.00

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ATOM 1702	HB	THR A 111	5.986	-13.281	0.160	1.00	0.00
ATOM 1703	HG1	THR A 111	7.058	-12.792	1.993	1.00	0.00
ATOM 1704	1HG2	THR A 111	7.687	-11.332	-1.155	1.00	0.00
ATOM 1705	2HG2	THR A 111	7.751	-13.094	-1.172	1.00	0.00
ATOM 1706	3HG2	THR A 111	8.502	-12.197	0.148	1.00	0.00
ATOM 1707	N	GLN A 112	4.218	-10.462	1.712	1.00	0.00
ATOM 1708	CA	GLN A 112	3.141	-10.357	2.690	1.00	0.00
ATOM 1709	C	GLN A 112	2.993	-8.927	3.196	1.00	0.00
ATOM 1710	O	GLN A 112	3.902	-8.380	3.821	1.00	0.00
ATOM 1711	CB	GLN A 112	3.400	-11.302	3.865	1.00	0.00
ATOM 1712	CG	GLN A 112	2.302	-11.279	4.917	1.00	0.00
ATOM 1713	CD	GLN A 112	2.428	-12.413	5.914	1.00	0.00
ATOM 1714	OE1	GLN A 112	3.011	-13.456	5.616	1.00	0.00
ATOM 1715	NE2	GLN A 112	1.880	-12.216	7.108	1.00	0.00
ATOM 1716	H	GLN A 112	5.030	-9.927	1.834	1.00	0.00
ATOM 1717	HA	GLN A 112	2.225	-10.648	2.202	1.00	0.00
ATOM 1718	1HB	GLN A 112	3.487	-12.310	3.488	1.00	0.00
ATOM 1719	2HB	GLN A 112	4.329	-11.022	4.339	1.00	0.00
ATOM 1720	1HG	GLN A 112	2.353	-10.343	5.452	1.00	0.00
ATOM 1721	2HG	GLN A 112	1.345	-11.358	4.422	1.00	0.00
ATOM 1722	1HE2	GLN A 112	1.431	-11.360	7.274	1.00	0.00
ATOM 1723	2HE2	GLN A 112	1.946	-12.933	7.772	1.00	0.00
ATOM 1724	N	LEU A 113	1.837	-8.328	2.927	1.00	0.00
ATOM 1725	CA	LEU A 113	1.561	-6.964	3.359	1.00	0.00
ATOM 1726	C	LEU A 113	0.815	-6.962	4.689	1.00	0.00
ATOM 1727	O	LEU A 113	-0.413	-7.030	4.722	1.00	0.00
ATOM 1728	CB	LEU A 113	0.745	-6.222	2.293	1.00	0.00

ATOM 1729	CG	LEU A 113	0.321	-4.791	2.651	1.00	0.00
ATOM 1730	CD1	LEU A 113	-1.029	-4.791	3.351	1.00	0.00
ATOM 1731	CD2	LEU A 113	1.371	-4.109	3.518	1.00	0.00
ATOM 1732	H	LEU A 113	1.150	-8.820	2.428	1.00	0.00
ATOM 1733	HA	LEU A 113	2.508	-6.461	3.490	1.00	0.00
ATOM 1734	1HB	LEU A 113	1.332	-6.183	1.387	1.00	0.00
ATOM 1735	2HB	LEU A 113	-0.148	-6.797	2.095	1.00	0.00
ATOM 1736	HG	LEU A 113	0.220	-4.219	1.740	1.00	0.00
ATOM 1737	1HD1	LEU A 113	-1.557	-5.703	3.115	1.00	0.00
ATOM 1738	2HD1	LEU A 113	-1.608	-3.943	3.018	1.00	0.00
ATOM 1739	3HD1	LEU A 113	-0.880	-4.727	4.419	1.00	0.00
ATOM 1740	1HD2	LEU A 113	2.348	-4.499	3.274	1.00	0.00
ATOM 1741	2HD2	LEU A 113	1.157	-4.300	4.559	1.00	0.00
ATOM 1742	3HD2	LEU A 113	1.352	-3.046	3.336	1.00	0.00
ATOM 1743	N	LEU A 114	1.567	-6.890	5.784	1.00	0.00
ATOM 1744	CA	LEU A 114	0.982	-6.884	7.121	1.00	0.00
ATOM 1745	C	LEU A 114	0.212	-8.175	7.388	1.00	0.00
ATOM 1746	O	LEU A 114	0.711	-9.080	8.057	1.00	0.00
ATOM 1747	CB	LEU A 114	0.060	-5.676	7.294	1.00	0.00
ATOM 1748	CG	LEU A 114	0.774	-4.326	7.384	1.00	0.00
ATOM 1749	CD1	LEU A 114	-0.232	-3.186	7.342	1.00	0.00
ATOM 1750	CD2	LEU A 114	1.615	-4.252	8.649	1.00	0.00
ATOM 1751	H	LEU A 114	2.542	-6.843	5.690	1.00	0.00
ATOM 1752	HA	LEU A 114	1.791	-6.811	7.833	1.00	0.00
ATOM 1753	1HB	LEU A 114	-0.621	-5.645	6.457	1.00	0.00
ATOM 1754	2HB	LEU A 114	-0.514	-5.814	8.198	1.00	0.00
ATOM 1755	HG	LEU A 114	1.434	-4.220	6.535	1.00	0.00

ATOM	1756	1HD1	LEU	A	114	0.109	-2.382	7.977	1.00	0.00
ATOM	1757	2HD1	LEU	A	114	-1.191	-3.540	7.692	1.00	0.00
ATOM	1758	3HD1	LEU	A	114	-0.328	-2.829	6.327	1.00	0.00
ATOM	1759	1HD2	LEU	A	114	2.153	-3.316	8.670	1.00	0.00
ATOM	1760	2HD2	LEU	A	114	2.317	-5.072	8.663	1.00	0.00
ATOM	1761	3HD2	LEU	A	114	0.970	-4.315	9.514	1.00	0.00
ATOM	1762	N	ASN	A	115	-1.005	-8.254	6.861	1.00	0.00
ATOM	1763	CA	ASN	A	115	-1.843	-9.434	7.042	1.00	0.00
ATOM	1764	C	ASN	A	115	-2.472	-9.863	5.719	1.00	0.00
ATOM	1765	O	ASN	A	115	-3.655	-10.200	5.662	1.00	0.00
ATOM	1766	CB	ASN	A	115	-2.936	-9.154	8.076	1.00	0.00
ATOM	1767	CG	ASN	A	115	-2.495	-9.486	9.488	1.00	0.00
ATOM	1768	OD1	ASN	A	115	-2.350	-8.599	10.330	1.00	0.00
ATOM	1769	ND2	ASN	A	115	-2.278	-10.769	9.754	1.00	0.00
ATOM	1770	H	ASN	A	115	-1.348	-7.500	6.337	1.00	0.00
ATOM	1771	HA	ASN	A	115	-1.214	-10.234	7.404	1.00	0.00
ATOM	1772	1HB	ASN	A	115	-3.198	-8.108	8.037	1.00	0.00
ATOM	1773	2HB	ASN	A	115	-3.806	-9.749	7.840	1.00	0.00
ATOM	1774	1HD2	ASN	A	115	-2.414	-11.420	9.035	1.00	0.00
ATOM	1775	2HD2	ASN	A	115	-1.993	-11.011	10.659	1.00	0.00
ATOM	1776	N	PHE	A	116	-1.674	-9.848	4.656	1.00	0.00
ATOM	1777	CA	PHE	A	116	-2.154	-10.236	3.334	1.00	0.00
ATOM	1778	C	PHE	A	116	-0.995	-10.642	2.430	1.00	0.00
ATOM	1779	O	PHE	A	116	-0.150	-9.820	2.078	1.00	0.00
ATOM	1780	CB	PHE	A	116	-2.934	-9.086	2.697	1.00	0.00
ATOM	1781	CG	PHE	A	116	-4.243	-8.799	3.376	1.00	0.00
ATOM	1782	CD1	PHE	A	116	-5.362	-9.573	3.109	1.00	0.00

ATOM 1783	CD2	PHE A 116	-4.354	-7.757	4.283	1.00	0.00
ATOM 1784	CE1	PHE A 116	-6.566	-9.312	3.734	1.00	0.00
ATOM 1785	CE2	PHE A 116	-5.556	-7.492	4.911	1.00	0.00
ATOM 1786	CZ	PHE A 116	-6.664	-8.270	4.636	1.00	0.00
ATOM 1787	H	PHE A 116	-0.741	-9.570	4.763	1.00	0.00
ATOM 1788	HA	PHE A 116	-2.814	-11.082	3.457	1.00	0.00
ATOM 1789	1HB	PHE A 116	-2.337	-8.188	2.736	1.00	0.00
ATOM 1790	2HB	PHE A 116	-3.142	-9.330	1.664	1.00	0.00
ATOM 1791	HD1	PHE A 116	-5.286	-10.388	2.405	1.00	0.00
ATOM 1792	HD2	PHE A 116	-3.488	-7.149	4.499	1.00	0.00
ATOM 1793	HE1	PHE A 116	-7.431	-9.921	3.517	1.00	0.00
ATOM 1794	HE2	PHE A 116	-5.629	-6.677	5.615	1.00	0.00
ATOM 1795	HZ	PHE A 116	-7.604	-8.064	5.125	1.00	0.00
ATOM 1796	N	THR A 117	-0.963	-11.918	2.056	1.00	0.00
ATOM 1797	CA	THR A 117	0.092	-12.437	1.192	1.00	0.00
ATOM 1798	C	THR A 117	-0.152	-12.046	-0.262	1.00	0.00
ATOM 1799	O	THR A 117	-1.158	-12.432	-0.859	1.00	0.00
ATOM 1800	CB	THR A 117	0.178	-13.958	1.316	1.00	0.00
ATOM 1801	OG1	THR A 117	-0.886	-14.579	0.618	1.00	0.00
ATOM 1802	CG2	THR A 117	0.136	-14.446	2.748	1.00	0.00
ATOM 1803	H	THR A 117	-1.665	-12.525	2.370	1.00	0.00
ATOM 1804	HA	THR A 117	1.026	-12.005	1.516	1.00	0.00
ATOM 1805	HB	THR A 117	1.110	-14.291	0.880	1.00	0.00
ATOM 1806	HG1	THR A 117	-0.807	-15.533	0.695	1.00	0.00
ATOM 1807	1HG2	THR A 117	-0.841	-14.253	3.165	1.00	0.00
ATOM 1808	2HG2	THR A 117	0.885	-13.927	3.327	1.00	0.00
ATOM 1809	3HG2	THR A 117	0.334	-15.508	2.773	1.00	0.00

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ATOM	1810	N	LEU	A	118	0.775	-11.281	-0.828	1.00	0.00
ATOM	1811	CA	LEU	A	118	0.660	-10.841	-2.214	1.00	0.00
ATOM	1812	C	LEU	A	118	1.989	-11.002	-2.947	1.00	0.00
ATOM	1813	O	LEU	A	118	3.046	-11.096	-2.323	1.00	0.00
ATOM	1814	CB	LEU	A	118	0.196	-9.384	-2.274	1.00	0.00
ATOM	1815	CG	LEU	A	118	1.104	-8.380	-1.562	1.00	0.00
ATOM	1816	CD1	LEU	A	118	2.157	-7.844	-2.517	1.00	0.00
ATOM	1817	CD2	LEU	A	118	0.282	-7.242	-0.977	1.00	0.00
ATOM	1818	H	LEU	A	118	1.556	-11.006	-0.303	1.00	0.00
ATOM	1819	HA	LEU	A	118	-0.078	-11.464	-2.697	1.00	0.00
ATOM	1820	1HB	LEU	A	118	0.122	-9.096	-3.313	1.00	0.00
ATOM	1821	2HB	LEU	A	118	-0.785	-9.323	-1.832	1.00	0.00
ATOM	1822	HG	LEU	A	118	1.613	-8.878	-0.751	1.00	0.00
ATOM	1823	1HD1	LEU	A	118	1.833	-6.893	-2.912	1.00	0.00
ATOM	1824	2HD1	LEU	A	118	2.293	-8.543	-3.329	1.00	0.00
ATOM	1825	3HD1	LEU	A	118	3.090	-7.716	-1.991	1.00	0.00
ATOM	1826	1HD2	LEU	A	118	-0.650	-7.158	-1.515	1.00	0.00
ATOM	1827	2HD2	LEU	A	118	0.832	-6.317	-1.063	1.00	0.00
ATOM	1828	3HD2	LEU	A	118	0.078	-7.444	0.065	1.00	0.00
ATOM	1829	N	ASP	A	119	1.926	-11.040	-4.274	1.00	0.00
ATOM	1830	CA	ASP	A	119	3.123	-11.197	-5.092	1.00	0.00
ATOM	1831	C	ASP	A	119	3.860	-9.871	-5.249	1.00	0.00
ATOM	1832	O	ASP	A	119	3.241	-8.810	-5.333	1.00	0.00
ATOM	1833	CB	ASP	A	119	2.755	-11.754	-6.469	1.00	0.00
ATOM	1834	CG	ASP	A	119	3.750	-12.786	-6.961	1.00	0.00
ATOM	1835	OD1	ASP	A	119	4.928	-12.426	-7.166	1.00	0.00
ATOM	1836	OD2	ASP	A	119	3.351	-13.957	-7.141	1.00	0.00



ATOM 1837	H	ASP A 119	1.054	-10.965	-4.713	1.00	0.00
ATOM 1838	HA	ASP A 119	3.775	-11.899	-4.594	1.00	0.00
ATOM 1839	1HB	ASP A 119	1.781	-12.218	-6.414	1.00	0.00
ATOM 1840	2HB	ASP A 119	2.723	-10.943	-7.182	1.00	0.00
ATOM 1841	N	ARG A 120	5.188	-9.939	-5.290	1.00	0.00
ATOM 1842	CA	ARG A 120	6.011	-8.744	-5.438	1.00	0.00
ATOM 1843	C	ARG A 120	6.022	-8.268	-6.887	1.00	0.00
ATOM 1844	O	ARG A 120	5.838	-7.082	-7.163	1.00	0.00
ATOM 1845	CB	ARG A 120	7.443	-9.021	-4.973	1.00	0.00
ATOM 1846	CG	ARG A 120	8.354	-7.807	-5.054	1.00	0.00
ATOM 1847	CD	ARG A 120	9.526	-8.046	-5.993	1.00	0.00
ATOM 1848	NE	ARG A 120	10.755	-8.357	-5.267	1.00	0.00
ATOM 1849	CZ	ARG A 120	11.974	-8.243	-5.789	1.00	0.00
ATOM 1850	NH1	ARG A 120	12.133	-7.827	-7.040	1.00	0.00
ATOM 1851	NH2	ARG A 120	13.038	-8.544	-5.057	1.00	0.00
ATOM 1852	H	ARG A 120	5.624	-10.814	-5.220	1.00	0.00
ATOM 1853	HA	ARG A 120	5.585	-7.969	-4.820	1.00	0.00
ATOM 1854	1HB	ARG A 120	7.416	-9.356	-3.947	1.00	0.00
ATOM 1855	2HB	ARG A 120	7.862	-9.805	-5.587	1.00	0.00
ATOM 1856	1HG	ARG A 120	7.784	-6.965	-5.417	1.00	0.00
ATOM 1857	2HG	ARG A 120	8.734	-7.587	-4.067	1.00	0.00
ATOM 1858	1HD	ARG A 120	9.287	-8.873	-6.645	1.00	0.00
ATOM 1859	2HD	ARG A 120	9.683	-7.156	-6.585	1.00	0.00
ATOM 1860	HE	ARG A 120	10.668	-8.667	-4.341	1.00	0.00
ATOM 1861	1HH1	ARG A 120	11.335	-7.599	-7.597	1.00	0.00
ATOM 1862	2HH1	ARG A 120	13.051	-7.743	-7.425	1.00	0.00
ATOM 1863	1HH2	ARG A 120	12.925	-8.858	-4.115	1.00	0.00

ATOM	1864	2HH2	ARG	A	120	13.954	-8.459	-5.450	1.00	0.00
ATOM	1865	N	LYS	A	121	6.240	-9.200	-7.810	1.00	0.00
ATOM	1866	CA	LYS	A	121	6.275	-8.875	-9.231	1.00	0.00
ATOM	1867	C	LYS	A	121	4.957	-8.253	-9.680	1.00	0.00
ATOM	1868	O	LYS	A	121	4.932	-7.399	-10.565	1.00	0.00
ATOM	1869	CB	LYS	A	121	6.574	-10.130	-10.056	1.00	0.00
ATOM	1870	CG	LYS	A	121	7.995	-10.177	-10.593	1.00	0.00
ATOM	1871	CD	LYS	A	121	8.547	-11.594	-10.586	1.00	0.00
ATOM	1872	CE	LYS	A	121	10.036	-11.611	-10.280	1.00	0.00
ATOM	1873	NZ	LYS	A	121	10.446	-12.859	-9.581	1.00	0.00
ATOM	1874	H	LYS	A	121	6.380	-10.128	-7.529	1.00	0.00
ATOM	1875	HA	LYS	A	121	7.067	-8.157	-9.386	1.00	0.00
ATOM	1876	1HB	LYS	A	121	6.416	-10.999	-9.436	1.00	0.00
ATOM	1877	2HB	LYS	A	121	5.894	-10.168	-10.895	1.00	0.00
ATOM	1878	1HG	LYS	A	121	7.999	-9.806	-11.606	1.00	0.00
ATOM	1879	2HG	LYS	A	121	8.624	-9.553	-9.976	1.00	0.00
ATOM	1880	1HD	LYS	A	121	8.029	-12.168	-9.832	1.00	0.00
ATOM	1881	2HD	LYS	A	121	8.382	-12.039	-11.556	1.00	0.00
ATOM	1882	1HE	LYS	A	121	10.582	-11.535	-11.209	1.00	0.00
ATOM	1883	2HE	LYS	A	121	10.272	-10.763	-9.655	1.00	0.00
ATOM	1884	1HZ	LYS	A	121	10.166	-12.816	-8.579	1.00	0.00
ATOM	1885	2HZ	LYS	A	121	11.477	-12.979	-9.636	1.00	0.00
ATOM	1886	3HZ	LYS	A	121	9.988	-13.683	-10.022	1.00	0.00
ATOM	1887	N	SER	A	122	3.862	-8.685	-9.061	1.00	0.00
ATOM	1888	CA	SER	A	122	2.542	-8.167	-9.397	1.00	0.00
ATOM	1889	C	SER	A	122	2.450	-6.679	-9.081	1.00	0.00
ATOM	1890	O	SER	A	122	1.771	-5.926	-9.779	1.00	0.00

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ATOM 1891	CB	SER A 122	1.459	-8.930	-8.631	1.00	0.00
ATOM 1892	OG	SER A 122	0.189	-8.749	-9.232	1.00	0.00
ATOM 1893	H	SER A 122	3.946	-9.366	-8.361	1.00	0.00
ATOM 1894	HA	SER A 122	2.390	-8.308	-10.457	1.00	0.00
ATOM 1895	1HB	SER A 122	1.697	-9.983	-8.629	1.00	0.00
ATOM 1896	2HB	SER A 122	1.418	-8.568	-7.615	1.00	0.00
ATOM 1897	HG	SER A 122	0.077	-7.828	-9.477	1.00	0.00
ATOM 1898	N	VAL A 123	3.139	-6.260	-8.024	1.00	0.00
ATOM 1899	CA	VAL A 123	3.137	-4.861	-7.616	1.00	0.00
ATOM 1900	C	VAL A 123	3.672	-3.965	-8.728	1.00	0.00
ATOM 1901	O	VAL A 123	4.505	-4.386	-9.531	1.00	0.00
ATOM 1902	CB	VAL A 123	3.982	-4.642	-6.347	1.00	0.00
ATOM 1903	CG1	VAL A 123	3.781	-3.232	-5.810	1.00	0.00
ATOM 1904	CG2	VAL A 123	3.638	-5.681	-5.287	1.00	0.00
ATOM 1905	H	VAL A 123	3.663	-6.908	-7.508	1.00	0.00
ATOM 1906	HA	VAL A 123	2.117	-4.579	-7.399	1.00	0.00
ATOM 1907	HB	VAL A 123	5.024	-4.757	-6.609	1.00	0.00
ATOM 1908	1HG1	VAL A 123	2.805	-2.872	-6.098	1.00	0.00
ATOM 1909	2HG1	VAL A 123	4.541	-2.581	-6.217	1.00	0.00
ATOM 1910	3HG1	VAL A 123	3.858	-3.243	-4.733	1.00	0.00
ATOM 1911	1HG2	VAL A 123	4.478	-6.347	-5.153	1.00	0.00
ATOM 1912	2HG2	VAL A 123	2.776	-6.248	-5.604	1.00	0.00
ATOM 1913	3HG2	VAL A 123	3.419	-5.185	-4.353	1.00	0.00
ATOM 1914	N	PHE A 124	3.187	-2.730	-8.768	1.00	0.00
ATOM 1915	CA	PHE A 124	3.614	-1.774	-9.782	1.00	0.00
ATOM 1916	C	PHE A 124	3.019	-0.398	-9.513	1.00	0.00
ATOM 1917	O	PHE A 124	1.819	-0.268	-9.267	1.00	0.00

ATOM 1918	CB	PHE A 124	3.204	-2.257	-11.174	1.00	0.00
ATOM 1919	CG	PHE A 124	3.946	-1.577	-12.290	1.00	0.00
ATOM 1920	CD1	PHE A 124	3.784	-0.221	-12.521	1.00	0.00
ATOM 1921	CD2	PHE A 124	4.802	-2.297	-13.108	1.00	0.00
ATOM 1922	CE1	PHE A 124	4.464	0.406	-13.548	1.00	0.00
ATOM 1923	CE2	PHE A 124	5.485	-1.675	-14.136	1.00	0.00
ATOM 1924	CZ	PHE A 124	5.316	-0.322	-14.356	1.00	0.00
ATOM 1925	H	PHE A 124	2.525	-2.453	-8.101	1.00	0.00
ATOM 1926	HA	PHE A 124	4.691	-1.703	-9.737	1.00	0.00
ATOM 1927	1HB	PHE A 124	3.391	-3.318	-11.249	1.00	0.00
ATOM 1928	2HB	PHE A 124	2.148	-2.073	-11.313	1.00	0.00
ATOM 1929	HD1	PHE A 124	3.119	0.349	-11.890	1.00	0.00
ATOM 1930	HD2	PHE A 124	4.935	-3.355	-12.936	1.00	0.00
ATOM 1931	HE1	PHE A 124	4.330	1.463	-13.719	1.00	0.00
ATOM 1932	HE2	PHE A 124	6.150	-2.247	-14.766	1.00	0.00
ATOM 1933	HZ	PHE A 124	5.849	0.165	-15.160	1.00	0.00
ATOM 1934	N	VAL A 125	3.861	0.628	-9.560	1.00	0.00
ATOM 1935	CA	VAL A 125	3.410	1.993	-9.321	1.00	0.00
ATOM 1936	C	VAL A 125	3.877	2.930	-10.431	1.00	0.00
ATOM 1937	O	VAL A 125	5.076	3.121	-10.632	1.00	0.00
ATOM 1938	CB	VAL A 125	3.909	2.522	-7.961	1.00	0.00
ATOM 1939	CG1	VAL A 125	5.428	2.603	-7.937	1.00	0.00
ATOM 1940	CG2	VAL A 125	3.286	3.876	-7.655	1.00	0.00
ATOM 1941	H	VAL A 125	4.806	0.464	-9.761	1.00	0.00
ATOM 1942	HA	VAL A 125	2.332	1.985	-9.304	1.00	0.00
ATOM 1943	HB	VAL A 125	3.597	1.828	-7.195	1.00	0.00
ATOM 1944	1HG1	VAL A 125	5.835	1.988	-8.726	1.00	0.00

ATOM	1945	2HG1	VAL	A	125	5.791	2.251	-6.982	1.00	0.00
ATOM	1946	3HG1	VAL	A	125	5.737	3.627	-8.083	1.00	0.00
ATOM	1947	1HG2	VAL	A	125	2.941	4.329	-8.573	1.00	0.00
ATOM	1948	2HG2	VAL	A	125	4.025	4.516	-7.194	1.00	0.00
ATOM	1949	3HG2	VAL	A	125	2.453	3.745	-6.981	1.00	0.00
ATOM	1950	N	ASP	A	126	2.920	3.512	-11.148	1.00	0.00
ATOM	1951	CA	ASP	A	126	3.232	4.429	-12.238	1.00	0.00
ATOM	1952	C	ASP	A	126	2.882	5.865	-11.861	1.00	0.00
ATOM	1953	O	ASP	A	126	2.251	6.112	-10.834	1.00	0.00
ATOM	1954	CB	ASP	A	126	2.476	4.024	-13.504	1.00	0.00
ATOM	1955	CG	ASP	A	126	3.171	4.492	-14.768	1.00	0.00
ATOM	1956	OD1	ASP	A	126	4.011	3.735	-15.298	1.00	0.00
ATOM	1957	OD2	ASP	A	126	2.877	5.615	-15.227	1.00	0.00
ATOM	1958	H	ASP	A	126	1.983	3.319	-10.939	1.00	0.00
ATOM	1959	HA	ASP	A	126	4.293	4.368	-12.428	1.00	0.00
ATOM	1960	1HB	ASP	A	126	2.394	2.948	-13.539	1.00	0.00
ATOM	1961	2HB	ASP	A	126	1.486	4.456	-13.479	1.00	0.00
ATOM	1962	N	SER	A	127	3.300	6.809	-12.698	1.00	0.00
ATOM	1963	CA	SER	A	127	3.035	8.221	-12.454	1.00	0.00
ATOM	1964	C	SER	A	127	1.573	8.559	-12.733	1.00	0.00
ATOM	1965	O	SER	A	127	1.169	8.714	-13.886	1.00	0.00
ATOM	1966	CB	SER	A	127	3.946	9.090	-13.323	1.00	0.00
ATOM	1967	OG	SER	A	127	5.176	9.352	-12.670	1.00	0.00
ATOM	1968	H	SER	A	127	3.800	6.548	-13.499	1.00	0.00
ATOM	1969	HA	SER	A	127	3.245	8.423	-11.415	1.00	0.00
ATOM	1970	1HB	SER	A	127	4.148	8.579	-14.253	1.00	0.00
ATOM	1971	2HB	SER	A	127	3.454	10.030	-13.529	1.00	0.00

ATOM 1972	HG	SER A 127	5.563	10.155	-13.027	1.00	0.00
ATOM 1973	N	GLY A 128	0.787	8.676	-11.668	1.00	0.00
ATOM 1974	CA	GLY A 128	-0.621	8.998	-11.810	1.00	0.00
ATOM 1975	C	GLY A 128	-1.376	7.972	-12.634	1.00	0.00
ATOM 1976	O	GLY A 128	-0.776	7.249	-13.430	1.00	0.00
ATOM 1977	H	GLY A 128	1.167	8.544	-10.775	1.00	0.00
ATOM 1978	1HA	GLY A 128	-1.064	9.051	-10.827	1.00	0.00
ATOM 1979	2HA	GLY A 128	-0.713	9.963	-12.285	1.00	0.00
ATOM 1980	N	PRO A 129	-2.707	7.882	-12.463	1.00	0.00
ATOM 1981	CA	PRO A 129	-3.540	6.928	-13.203	1.00	0.00
ATOM 1982	C	PRO A 129	-3.607	7.257	-14.690	1.00	0.00
ATOM 1983	O	PRO A 129	-3.212	6.452	-15.533	1.00	0.00
ATOM 1984	CB	PRO A 129	-4.929	7.074	-12.561	1.00	0.00
ATOM 1985	CG	PRO A 129	-4.708	7.834	-11.296	1.00	0.00
ATOM 1986	CD	PRO A 129	-3.505	8.698	-11.539	1.00	0.00
ATOM 1987	HA	PRO A 129	-3.186	5.915	-13.076	1.00	0.00
ATOM 1988	1HB	PRO A 129	-5.582	7.612	-13.233	1.00	0.00
ATOM 1989	2HB	PRO A 129	-5.339	6.095	-12.364	1.00	0.00
ATOM 1990	1HG	PRO A 129	-5.570	8.445	-11.078	1.00	0.00
ATOM 1991	2HG	PRO A 129	-4.518	7.148	-10.483	1.00	0.00
ATOM 1992	1HD	PRO A 129	-3.796	9.633	-11.997	1.00	0.00
ATOM 1993	2HD	PRO A 129	-2.971	8.874	-10.617	1.00	0.00
ATOM 1994	N	SER A 130	-4.110	8.447	-15.005	1.00	0.00
ATOM 1995	CA	SER A 130	-4.232	8.886	-16.391	1.00	0.00
ATOM 1996	C	SER A 130	-5.173	7.972	-17.171	1.00	0.00
ATOM 1997	O	SER A 130	-4.742	6.989	-17.772	1.00	0.00
ATOM 1998	CB	SER A 130	-2.857	8.915	-17.061	1.00	0.00

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ATOM	1999	OG	SER A 130	-1.903	9.569	-16.242	1.00	0.00
ATOM	2000	H	SER A 130	-4.408	9.044	-14.288	1.00	0.00
ATOM	2001	HA	SER A 130	-4.641	9.884	-16.387	1.00	0.00
ATOM	2002	1HB	SER A 130	-2.525	7.903	-17.241	1.00	0.00
ATOM	2003	2HB	SER A 130	-2.929	9.442	-18.002	1.00	0.00
ATOM	2004	HG	SER A 130	-1.906	9.174	-15.368	1.00	0.00
ATOM	2005	N	SER A 131	-6.459	8.307	-17.157	1.00	0.00
ATOM	2006	CA	SER A 131	-7.461	7.518	-17.864	1.00	0.00
ATOM	2007	C	SER A 131	-7.974	8.264	-19.092	1.00	0.00
ATOM	2008	O	SER A 131	-8.088	9.489	-19.082	1.00	0.00
ATOM	2009	CB	SER A 131	-8.628	7.183	-16.933	1.00	0.00
ATOM	2010	OG	SER A 131	-9.422	6.136	-17.463	1.00	0.00
ATOM	2011	H	SER A 131	-6.741	9.103	-16.661	1.00	0.00
ATOM	2012	HA	SER A 131	-6.995	6.599	-18.186	1.00	0.00
ATOM	2013	1HB	SER A 131	-8.243	6.874	-15.973	1.00	0.00
ATOM	2014	2HB	SER A 131	-9.247	8.059	-16.806	1.00	0.00
ATOM	2015	HG	SER A 131	-10.273	6.122	-17.020	1.00	0.00
ATOM	2016	N	GLY A 132	-8.282	7.516	-20.147	1.00	0.00
ATOM	2017	CA	GLY A 132	-8.778	8.124	-21.367	1.00	0.00
ATOM	2018	C	GLY A 132	-9.293	7.100	-22.358	1.00	0.00
ATOM	2019	H	GLY A 132	-8.170	6.544	-20.096	1.00	0.00
ATOM	2020	1HA	GLY A 132	-9.581	8.802	-21.117	1.00	0.00
ATOM	2021	2HA	GLY A 132	-7.978	8.685	-21.828	1.00	0.00
TER	2022		GLY A 132					

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ATOM 1	N	GLY A	1	26.540	32.249	-18.058	1.00	0.00
ATOM 2	CA	GLY A	1	25.961	30.991	-18.606	1.00	0.00
ATOM 3	C	GLY A	1	24.480	31.117	-18.905	1.00	0.00
ATOM 4	O	GLY A	1	23.938	32.222	-18.936	1.00	0.00
ATOM 5	1H	GLY A	1	25.787	32.844	-17.658	1.00	0.00
ATOM 6	2H	GLY A	1	27.022	32.779	-18.812	1.00	0.00
ATOM 7	3H	GLY A	1	27.229	32.030	-17.311	1.00	0.00
ATOM 8	1HA	GLY A	1	26.481	30.736	-19.518	1.00	0.00
ATOM 9	2HA	GLY A	1	26.105	30.198	-17.887	1.00	0.00
ATOM 10	N	SER A	2	23.824	29.983	-19.126	1.00	0.00
ATOM 11	CA	SER A	2	22.396	29.971	-19.423	1.00	0.00
ATOM 12	C	SER A	2	21.689	28.861	-18.652	1.00	0.00
ATOM 13	O	SER A	2	22.237	27.776	-18.464	1.00	0.00
ATOM 14	CB	SER A	2	22.168	29.789	-20.925	1.00	0.00
ATOM 15	OG	SER A	2	22.033	31.041	-21.577	1.00	0.00
ATOM 16	H	SER A	2	24.311	29.133	-19.087	1.00	0.00
ATOM 17	HA	SER A	2	21.986	30.922	-19.119	1.00	0.00
ATOM 18	1HB	SER A	2	23.009	29.265	-21.354	1.00	0.00
ATOM 19	2HB	SER A	2	21.267	29.215	-21.084	1.00	0.00
ATOM 20	HG	SER A	2	21.384	30.967	-22.280	1.00	0.00
ATOM 21	N	SER A	3	20.468	29.142	-18.207	1.00	0.00
ATOM 22	CA	SER A	3	19.685	28.168	-17.456	1.00	0.00
ATOM 23	C	SER A	3	18.267	28.675	-17.217	1.00	0.00
ATOM 24	O	SER A	3	18.040	29.880	-17.101	1.00	0.00
ATOM 25	CB	SER A	3	20.361	27.862	-16.117	1.00	0.00
ATOM 26	OG	SER A	3	20.673	29.056	-15.420	1.00	0.00
ATOM 27	H	SER A	3	20.085	30.025	-18.389	1.00	0.00



ATOM 28	HA	SER A	3	19.637	27.261	-18.038	1.00	0.00
ATOM 29	1HB	SER A	3	19.696	27.268	-15.507	1.00	0.00
ATOM 30	2HB	SER A	3	21.274	27.314	-16.295	1.00	0.00
ATOM 31	HG	SER A	3	21.251	29.600	-15.959	1.00	0.00
ATOM 32	N	GLY A	4	17.317	27.750	-17.146	1.00	0.00
ATOM 33	CA	GLY A	4	15.933	28.124	-16.922	1.00	0.00
ATOM 34	C	GLY A	4	15.600	28.262	-15.449	1.00	0.00
ATOM 35	O	GLY A	4	16.459	28.621	-14.643	1.00	0.00
ATOM 36	H	GLY A	4	17.557	26.804	-17.245	1.00	0.00
ATOM 37	1HA	GLY A	4	15.742	29.066	-17.413	1.00	0.00
ATOM 38	2HA	GLY A	4	15.293	27.369	-17.354	1.00	0.00
ATOM 39	N	SER A	5	14.351	27.977	-15.097	1.00	0.00
ATOM 40	CA	SER A	5	13.907	28.072	-13.712	1.00	0.00
ATOM 41	C	SER A	5	12.675	27.205	-13.474	1.00	0.00
ATOM 42	O	SER A	5	12.053	26.719	-14.419	1.00	0.00
ATOM 43	CB	SER A	5	13.599	29.526	-13.352	1.00	0.00
ATOM 44	OG	SER A	5	13.105	30.236	-14.474	1.00	0.00
ATOM 45	H	SER A	5	13.712	27.696	-15.785	1.00	0.00
ATOM 46	HA	SER A	5	14.709	27.717	-13.082	1.00	0.00
ATOM 47	1HB	SER A	5	12.855	29.552	-12.570	1.00	0.00
ATOM 48	2HB	SER A	5	14.502	30.008	-13.006	1.00	0.00
ATOM 49	HG	SER A	5	13.834	30.666	-14.929	1.00	0.00
ATOM 50	N	SER A	6	12.327	27.016	-12.205	1.00	0.00
ATOM 51	CA	SER A	6	11.168	26.207	-11.842	1.00	0.00
ATOM 52	C	SER A	6	10.599	26.644	-10.497	1.00	0.00
ATOM 53	O	SER A	6	11.226	26.451	-9.454	1.00	0.00
ATOM 54	CB	SER A	6	11.550	24.726	-11.791	1.00	0.00

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ATOM 55	OG	SER A	6	11.893	24.243	-13.078	1.00	0.00
ATOM 56	H	SER A	6	12.862	27.429	-11.496	1.00	0.00
ATOM 57	HA	SER A	6	10.415	26.350	-12.602	1.00	0.00
ATOM 58	1HB	SER A	6	12.397	24.598	-11.134	1.00	0.00
ATOM 59	2HB	SER A	6	10.714	24.154	-11.416	1.00	0.00
ATOM 60	HG	SER A	6	12.110	23.309	-13.022	1.00	0.00
ATOM 61	N	GLY A	7	9.410	27.236	-10.527	1.00	0.00
ATOM 62	CA	GLY A	7	8.777	27.691	-9.303	1.00	0.00
ATOM 63	C	GLY A	7	8.179	26.553	-8.501	1.00	0.00
ATOM 64	O	GLY A	7	8.754	25.468	-8.427	1.00	0.00
ATOM 65	H	GLY A	7	8.958	27.363	-11.387	1.00	0.00
ATOM 66	1HA	GLY A	7	9.515	28.195	-8.696	1.00	0.00
ATOM 67	2HA	GLY A	7	7.994	28.391	-9.554	1.00	0.00
ATOM 68	N	SER A	8	7.019	26.800	-7.900	1.00	0.00
ATOM 69	CA	SER A	8	6.342	25.787	-7.099	1.00	0.00
ATOM 70	C	SER A	8	5.626	24.778	-7.991	1.00	0.00
ATOM 71	O	SER A	8	5.686	24.866	-9.218	1.00	0.00
ATOM 72	CB	SER A	8	5.341	26.444	-6.148	1.00	0.00
ATOM 73	OG	SER A	8	4.950	25.549	-5.120	1.00	0.00
ATOM 74	H	SER A	8	6.610	27.686	-7.997	1.00	0.00
ATOM 75	HA	SER A	8	7.090	25.269	-6.518	1.00	0.00
ATOM 76	1HB	SER A	8	5.794	27.314	-5.696	1.00	0.00
ATOM 77	2HB	SER A	8	4.462	26.742	-6.701	1.00	0.00
ATOM 78	HG	SER A	8	5.449	25.740	-4.322	1.00	0.00
ATOM 79	N	SER A	9	4.948	23.820	-7.367	1.00	0.00
ATOM 80	CA	SER A	9	4.221	22.793	-8.104	1.00	0.00
ATOM 81	C	SER A	9	3.171	22.128	-7.220	1.00	0.00

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ATOM 82	O	SER A	9	3.202	22.262	-5.996	1.00	0.00
ATOM 83	CB	SER A	9	5.189	21.740	-8.644	1.00	0.00
ATOM 84	OG	SER A	9	4.772	21.265	-9.912	1.00	0.00
ATOM 85	H	SER A	9	4.938	23.802	-6.387	1.00	0.00
ATOM 86	HA	SER A	9	3.723	23.271	-8.935	1.00	0.00
ATOM 87	1HB	SER A	9	6.173	22.175	-8.743	1.00	0.00
ATOM 88	2HB	SER A	9	5.232	20.908	-7.957	1.00	0.00
ATOM 89	HG	SER A	9	4.389	20.390	-9.817	1.00	0.00
ATOM 90	N	SER A	10	2.243	21.413	-7.847	1.00	0.00
ATOM 91	CA	SER A	10	1.183	20.728	-7.117	1.00	0.00
ATOM 92	C	SER A	10	1.664	19.375	-6.601	1.00	0.00
ATOM 93	O	SER A	10	2.771	18.938	-6.914	1.00	0.00
ATOM 94	CB	SER A	10	-0.043	20.539	-8.012	1.00	0.00
ATOM 95	OG	SER A	10	0.271	19.749	-9.146	1.00	0.00
ATOM 96	H	SER A	10	2.271	21.345	-8.824	1.00	0.00
ATOM 97	HA	SER A	10	0.909	21.344	-6.273	1.00	0.00
ATOM 98	1HB	SER A	10	-0.824	20.047	-7.452	1.00	0.00
ATOM 99	2HB	SER A	10	-0.392	21.504	-8.347	1.00	0.00
ATOM 100	HG	SER A	10	0.809	20.260	-9.755	1.00	0.00
ATOM 101	N	SER A	11	0.823	18.716	-5.809	1.00	0.00
ATOM 102	CA	SER A	11	1.162	17.413	-5.250	1.00	0.00
ATOM 103	C	SER A	11	1.324	16.372	-6.352	1.00	0.00
ATOM 104	O	SER A	11	1.224	16.688	-7.537	1.00	0.00
ATOM 105	CB	SER A	11	0.084	16.963	-4.262	1.00	0.00
ATOM 106	OG	SER A	11	-1.176	17.519	-4.593	1.00	0.00
ATOM 107	H	SER A	11	-0.045	19.117	-5.596	1.00	0.00
ATOM 108	HA	SER A	11	2.099	17.511	-4.724	1.00	0.00

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ATOM 109	1HB	SER A	11	0.005	15.887	-4.284	1.00	0.00
ATOM 110	2HB	SER A	11	0.355	17.283	-3.266	1.00	0.00
ATOM 111	N	GLN A	12	1.577	15.130	-5.954	1.00	0.00
ATOM 112	CA	GLN A	12	1.755	14.042	-6.908	1.00	0.00
ATOM 113	C	GLN A	12	0.959	12.810	-6.486	1.00	0.00
ATOM 114	O	GLN A	12	0.801	12.539	-5.295	1.00	0.00
ATOM 115	CB	GLN A	12	3.237	13.685	-7.039	1.00	0.00
ATOM 116	CG	GLN A	12	3.966	13.599	-5.707	1.00	0.00
ATOM 117	CD	GLN A	12	5.463	13.790	-5.850	1.00	0.00
ATOM 118	OE1	GLN A	12	6.104	13.157	-6.691	1.00	0.00
ATOM 119	NE2	GLN A	12	6.031	14.663	-5.026	1.00	0.00
ATOM 120	H	GLN A	12	1.646	14.941	-4.994	1.00	0.00
ATOM 121	HA	GLN A	12	1.389	14.379	-7.865	1.00	0.00
ATOM 122	1HB	GLN A	12	3.322	12.728	-7.533	1.00	0.00
ATOM 123	2HB	GLN A	12	3.723	14.436	-7.643	1.00	0.00
ATOM 124	1HG	GLN A	12	3.582	14.366	-5.051	1.00	0.00
ATOM 125	2HG	GLN A	12	3.781	12.628	-5.272	1.00	0.00
ATOM 126	1HE2	GLN A	12	5.459	15.130	-4.381	1.00	0.00
ATOM 127	2HE2	GLN A	12	6.998	14.805	-5.097	1.00	0.00
ATOM 128	N	HIS A	13	0.460	12.070	-7.470	1.00	0.00
ATOM 129	CA	HIS A	13	-0.321	10.868	-7.203	1.00	0.00
ATOM 130	C	HIS A	13	0.228	9.676	-7.981	1.00	0.00
ATOM 131	O	HIS A	13	0.099	9.608	-9.204	1.00	0.00
ATOM 132	CB	HIS A	13	-1.788	11.095	-7.569	1.00	0.00
ATOM 133	CG	HIS A	13	-2.421	12.229	-6.824	1.00	0.00
ATOM 134	ND1	HIS A	13	-3.462	12.977	-7.333	1.00	0.00
ATOM 135	CD2	HIS A	13	-2.157	12.743	-5.600	1.00	0.00

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ATOM 136	CE1	HIS	A	13	-3.810	13.901	-6.455	1.00	0.00
ATOM 137	NE2	HIS	A	13	-3.033	13.779	-5.395	1.00	0.00
ATOM 138	H	HIS	A	13	0.620	12.339	-8.399	1.00	0.00
ATOM 139	HA	HIS	A	13	-0.252	10.655	-6.147	1.00	0.00
ATOM 140	1HB	HIS	A	13	-1.859	11.312	-8.625	1.00	0.00
ATOM 141	2HB	HIS	A	13	-2.350	10.198	-7.352	1.00	0.00
ATOM 142	HD1	HIS	A	13	-3.885	12.849	-8.209	1.00	0.00
ATOM 143	HD2	HIS	A	13	-1.398	12.400	-4.911	1.00	0.00
ATOM 144	HE1	HIS	A	13	-4.595	14.630	-6.583	1.00	0.00
ATOM 145	HE2	HIS	A	13	-3.031	14.384	-4.624	1.00	0.00
ATOM 146	N	PHE	A	14	0.838	8.737	-7.265	1.00	0.00
ATOM 147	CA	PHE	A	14	1.402	7.546	-7.889	1.00	0.00
ATOM 148	C	PHE	A	14	0.418	6.382	-7.819	1.00	0.00
ATOM 149	O	PHE	A	14	0.044	5.936	-6.734	1.00	0.00
ATOM 150	CB	PHE	A	14	2.718	7.162	-7.209	1.00	0.00
ATOM 151	CG	PHE	A	14	3.780	8.220	-7.317	1.00	0.00
ATOM 152	CD1	PHE	A	14	4.604	8.281	-8.428	1.00	0.00
ATOM 153	CD2	PHE	A	14	3.951	9.153	-6.307	1.00	0.00
ATOM 154	CE1	PHE	A	14	5.582	9.253	-8.530	1.00	0.00
ATOM 155	CE2	PHE	A	14	4.927	10.127	-6.403	1.00	0.00
ATOM 156	CZ	PHE	A	14	5.743	10.177	-7.516	1.00	0.00
ATOM 157	H	PHE	A	14	0.906	8.845	-6.293	1.00	0.00
ATOM 158	HA	PHE	A	14	1.595	7.776	-8.926	1.00	0.00
ATOM 159	1HB	PHE	A	14	2.535	6.983	-6.160	1.00	0.00
ATOM 160	2HB	PHE	A	14	3.099	6.260	-7.662	1.00	0.00
ATOM 161	HD1	PHE	A	14	4.479	7.560	-9.222	1.00	0.00
ATOM 162	HD2	PHE	A	14	3.314	9.113	-5.435	1.00	0.00

ATOM 163	HE1	PHE	A	14	6.219	9.290	-9.402	1.00	0.00
ATOM 164	HE2	PHE	A	14	5.051	10.848	-5.609	1.00	0.00
ATOM 165	HZ	PHE	A	14	6.506	10.938	-7.594	1.00	0.00
ATOM 166	N	ASN	A	15	0.000	5.897	-8.983	1.00	0.00
ATOM 167	CA	ASN	A	15	-0.945	4.788	-9.056	1.00	0.00
ATOM 168	C	ASN	A	15	-0.385	3.542	-8.376	1.00	0.00
ATOM 169	O	ASN	A	15	0.649	3.013	-8.783	1.00	0.00
ATOM 170	CB	ASN	A	15	-1.285	4.480	-10.517	1.00	0.00
ATOM 171	CG	ASN	A	15	-2.740	4.755	-10.842	1.00	0.00
ATOM 172	OD1	ASN	A	15	-3.584	3.862	-10.773	1.00	0.00
ATOM 173	ND2	ASN	A	15	-3.040	5.998	-11.200	1.00	0.00
ATOM 174	H	ASN	A	15	0.332	6.297	-9.813	1.00	0.00
ATOM 175	HA	ASN	A	15	-1.845	5.088	-8.543	1.00	0.00
ATOM 176	1HB	ASN	A	15	-0.670	5.092	-11.160	1.00	0.00
ATOM 177	2HB	ASN	A	15	-1.081	3.438	-10.717	1.00	0.00
ATOM 178	1HD2	ASN	A	15	-2.317	6.658	-11.235	1.00	0.00
ATOM 179	2HD2	ASN	A	15	-3.974	6.204	-11.417	1.00	0.00
ATOM 180	N	LEU	A	16	-1.078	3.077	-7.342	1.00	0.00
ATOM 181	CA	LEU	A	16	-0.655	1.889	-6.609	1.00	0.00
ATOM 182	C	LEU	A	16	-1.424	0.662	-7.088	1.00	0.00
ATOM 183	O	LEU	A	16	-2.653	0.674	-7.148	1.00	0.00
ATOM 184	CB	LEU	A	16	-0.869	2.086	-5.107	1.00	0.00
ATOM 185	CG	LEU	A	16	-0.212	1.031	-4.216	1.00	0.00
ATOM 186	CD1	LEU	A	16	1.304	1.142	-4.283	1.00	0.00
ATOM 187	CD2	LEU	A	16	-0.698	1.170	-2.780	1.00	0.00
ATOM 188	H	LEU	A	16	-1.897	3.541	-7.068	1.00	0.00
ATOM 189	HA	LEU	A	16	0.397	1.739	-6.799	1.00	0.00

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ATOM 190	1HB	LEU	A	16	-0.477	3.054	-4.833	1.00	0.00
ATOM 191	2HB	LEU	A	16	-1.931	2.078	-4.913	1.00	0.00
ATOM 192	HG	LEU	A	16	-0.490	0.047	-4.570	1.00	0.00
ATOM 193	1HD1	LEU	A	16	1.581	1.835	-5.064	1.00	0.00
ATOM 194	2HD1	LEU	A	16	1.727	0.171	-4.497	1.00	0.00
ATOM 195	3HD1	LEU	A	16	1.682	1.498	-3.336	1.00	0.00
ATOM 196	1HD2	LEU	A	16	-0.786	0.191	-2.334	1.00	0.00
ATOM 197	2HD2	LEU	A	16	-1.661	1.657	-2.773	1.00	0.00
ATOM 198	3HD2	LEU	A	16	0.010	1.760	-2.217	1.00	0.00
ATOM 199	N	ASN	A	17	-0.696	-0.395	-7.433	1.00	0.00
ATOM 200	CA	ASN	A	17	-1.319	-1.622	-7.912	1.00	0.00
ATOM 201	C	ASN	A	17	-0.530	-2.854	-7.478	1.00	0.00
ATOM 202	O	ASN	A	17	0.696	-2.889	-7.581	1.00	0.00
ATOM 203	CB	ASN	A	17	-1.443	-1.595	-9.435	1.00	0.00
ATOM 204	CG	ASN	A	17	-2.630	-0.776	-9.905	1.00	0.00
ATOM 205	OD1	ASN	A	17	-3.737	-1.292	-10.047	1.00	0.00
ATOM 206	ND2	ASN	A	17	-2.402	0.509	-10.151	1.00	0.00
ATOM 207	H	ASN	A	17	0.281	-0.347	-7.368	1.00	0.00
ATOM 208	HA	ASN	A	17	-2.309	-1.676	-7.483	1.00	0.00
ATOM 209	1HB	ASN	A	17	-0.545	-1.165	-9.855	1.00	0.00
ATOM 210	2HB	ASN	A	17	-1.559	-2.604	-9.800	1.00	0.00
ATOM 211	1HD2	ASN	A	17	-1.494	0.852	-10.017	1.00	0.00
ATOM 212	2HD2	ASN	A	17	-3.151	1.062	-10.456	1.00	0.00
ATOM 213	N	PHE	A	18	-1.248	-3.866	-7.002	1.00	0.00
ATOM 214	CA	PHE	A	18	-0.628	-5.110	-6.558	1.00	0.00
ATOM 215	C	PHE	A	18	-1.693	-6.162	-6.268	1.00	0.00
ATOM 216	O	PHE	A	18	-2.516	-5.997	-5.367	1.00	0.00

ATOM 217	CB	PHE A	18	0.233	-4.872	-5.316	1.00	0.00
ATOM 218	CG	PHE A	18	-0.543	-4.388	-4.124	1.00	0.00
ATOM 219	CD1	PHE A	18	-1.015	-3.087	-4.071	1.00	0.00
ATOM 220	CD2	PHE A	18	-0.796	-5.234	-3.056	1.00	0.00
ATOM 221	CE1	PHE A	18	-1.726	-2.637	-2.975	1.00	0.00
ATOM 222	CE2	PHE A	18	-1.506	-4.791	-1.957	1.00	0.00
ATOM 223	CZ	PHE A	18	-1.973	-3.490	-1.916	1.00	0.00
ATOM 224	H	PHE A	18	-2.223	-3.776	-6.951	1.00	0.00
ATOM 225	HA	PHE A	18	0.002	-5.467	-7.359	1.00	0.00
ATOM 226	1HB	PHE A	18	0.716	-5.797	-5.041	1.00	0.00
ATOM 227	2HB	PHE A	18	0.986	-4.133	-5.546	1.00	0.00
ATOM 228	HD1	PHE A	18	-0.824	-2.419	-4.898	1.00	0.00
ATOM 229	HD2	PHE A	18	-0.431	-6.251	-3.085	1.00	0.00
ATOM 230	HE1	PHE A	18	-2.088	-1.621	-2.946	1.00	0.00
ATOM 231	HE2	PHE A	18	-1.698	-5.459	-1.132	1.00	0.00
ATOM 232	HZ	PHE A	18	-2.528	-3.142	-1.058	1.00	0.00
ATOM 233	N	THR A	19	-1.678	-7.241	-7.045	1.00	0.00
ATOM 234	CA	THR A	19	-2.649	-8.317	-6.882	1.00	0.00
ATOM 235	C	THR A	19	-2.296	-9.207	-5.696	1.00	0.00
ATOM 236	O	THR A	19	-1.151	-9.631	-5.541	1.00	0.00
ATOM 237	CB	THR A	19	-2.722	-9.158	-8.158	1.00	0.00
ATOM 238	OG1	THR A	19	-2.918	-8.333	-9.292	1.00	0.00
ATOM 239	CG2	THR A	19	-3.839	-10.181	-8.137	1.00	0.00
ATOM 240	H	THR A	19	-1.001	-7.311	-7.751	1.00	0.00
ATOM 241	HA	THR A	19	-3.614	-7.867	-6.704	1.00	0.00
ATOM 242	HB	THR A	19	-1.789	-9.689	-8.281	1.00	0.00
ATOM 243	HG1	THR A	19	-2.249	-7.644	-9.306	1.00	0.00



ATOM 244	1HG2	THR	A	19	-4.502	-9.973	-7.310	1.00	0.00
ATOM 245	2HG2	THR	A	19	-3.418	-11.169	-8.021	1.00	0.00
ATOM 246	3HG2	THR	A	19	-4.390	-10.130	-9.063	1.00	0.00
ATOM 247	N	ILE	A	20	-3.293	-9.491	-4.865	1.00	0.00
ATOM 248	CA	ILE	A	20	-3.098	-10.339	-3.695	1.00	0.00
ATOM 249	C	ILE	A	20	-3.513	-11.777	-3.992	1.00	0.00
ATOM 250	O	ILE	A	20	-4.594	-12.023	-4.527	1.00	0.00
ATOM 251	CB	ILE	A	20	-3.901	-9.822	-2.485	1.00	0.00
ATOM 252	CG1	ILE	A	20	-3.613	-8.339	-2.246	1.00	0.00
ATOM 253	CG2	ILE	A	20	-3.574	-10.637	-1.242	1.00	0.00
ATOM 254	CD1	ILE	A	20	-4.713	-7.625	-1.488	1.00	0.00
ATOM 255	H	ILE	A	20	-4.184	-9.127	-5.047	1.00	0.00
ATOM 256	HA	ILE	A	20	-2.049	-10.321	-3.440	1.00	0.00
ATOM 257	HB	ILE	A	20	-4.953	-9.947	-2.700	1.00	0.00
ATOM 258	1HG1	ILE	A	20	-2.703	-8.243	-1.675	1.00	0.00
ATOM 259	2HG1	ILE	A	20	-3.490	-7.843	-3.198	1.00	0.00
ATOM 260	1HG2	ILE	A	20	-2.625	-11.134	-1.376	1.00	0.00
ATOM 261	2HG2	ILE	A	20	-4.346	-11.375	-1.082	1.00	0.00
ATOM 262	3HG2	ILE	A	20	-3.521	-9.982	-0.385	1.00	0.00
ATOM 263	1HD1	ILE	A	20	-5.526	-7.401	-2.163	1.00	0.00
ATOM 264	2HD1	ILE	A	20	-4.326	-6.708	-1.073	1.00	0.00
ATOM 265	3HD1	ILE	A	20	-5.070	-8.260	-0.691	1.00	0.00
ATOM 266	N	THR	A	21	-2.647	-12.723	-3.643	1.00	0.00
ATOM 267	CA	THR	A	21	-2.925	-14.136	-3.874	1.00	0.00
ATOM 268	C	THR	A	21	-3.483	-14.796	-2.616	1.00	0.00
ATOM 269	O	THR	A	21	-3.253	-15.980	-2.369	1.00	0.00
ATOM 270	CB	THR	A	21	-1.657	-14.862	-4.325	1.00	0.00

ATOM 271	OG1	THR	A	21	-0.538	-14.440	-3.563	1.00	0.00
ATOM 272	CG2	THR	A	21	-1.328	-14.639	-5.786	1.00	0.00
ATOM 273	H	THR	A	21	-1.803	-12.465	-3.222	1.00	0.00
ATOM 274	HA	THR	A	21	-3.665	-14.204	-4.657	1.00	0.00
ATOM 275	HB	THR	A	21	-1.789	-15.923	-4.174	1.00	0.00
ATOM 276	HG1	THR	A	21	-0.277	-13.558	-3.835	1.00	0.00
ATOM 277	1HG2	THR	A	21	-2.071	-13.991	-6.228	1.00	0.00
ATOM 278	2HG2	THR	A	21	-1.327	-15.588	-6.303	1.00	0.00
ATOM 279	3HG2	THR	A	21	-0.354	-14.181	-5.871	1.00	0.00
ATOM 280	N	ASN	A	22	-4.220	-14.022	-1.826	1.00	0.00
ATOM 281	CA	ASN	A	22	-4.816	-14.528	-0.596	1.00	0.00
ATOM 282	C	ASN	A	22	-6.158	-13.856	-0.328	1.00	0.00
ATOM 283	O	ASN	A	22	-6.563	-13.690	0.822	1.00	0.00
ATOM 284	CB	ASN	A	22	-3.871	-14.297	0.586	1.00	0.00
ATOM 285	CG	ASN	A	22	-4.133	-15.254	1.732	1.00	0.00
ATOM 286	OD1	ASN	A	22	-4.423	-16.431	1.519	1.00	0.00
ATOM 287	ND2	ASN	A	22	-4.032	-14.751	2.957	1.00	0.00
ATOM 288	H	ASN	A	22	-4.369	-13.086	-2.079	1.00	0.00
ATOM 289	HA	ASN	A	22	-4.974	-15.589	-0.716	1.00	0.00
ATOM 290	1HB	ASN	A	22	-2.852	-14.431	0.256	1.00	0.00
ATOM 291	2HB	ASN	A	22	-3.998	-13.287	0.948	1.00	0.00
ATOM 292	1HD2	ASN	A	22	-3.797	-13.805	3.051	1.00	0.00
ATOM 293	2HD2	ASN	A	22	-4.196	-15.348	3.717	1.00	0.00
ATOM 294	N	LEU	A	23	-6.844	-13.470	-1.400	1.00	0.00
ATOM 295	CA	LEU	A	23	-8.141	-12.815	-1.284	1.00	0.00
ATOM 296	C	LEU	A	23	-9.070	-13.247	-2.419	1.00	0.00
ATOM 297	O	LEU	A	23	-8.906	-12.816	-3.559	1.00	0.00

ATOM 298	CB	LEU A	23	-7.968	-11.295	-1.304	1.00	0.00
ATOM 299	CG	LEU A	23	-9.024	-10.513	-0.520	1.00	0.00
ATOM 300	CD1	LEU A	23	-10.382	-10.628	-1.196	1.00	0.00
ATOM 301	CD2	LEU A	23	-9.096	-11.010	0.915	1.00	0.00
ATOM 302	H	LEU A	23	-6.467	-13.630	-2.290	1.00	0.00
ATOM 303	HA	LEU A	23	-8.576	-13.106	-0.340	1.00	0.00
ATOM 304	1HB	LEU A	23	-6.996	-11.058	-0.894	1.00	0.00
ATOM 305	2HB	LEU A	23	-7.997	-10.964	-2.331	1.00	0.00
ATOM 306	HG	LEU A	23	-8.748	-9.469	-0.501	1.00	0.00
ATOM 307	1HD1	LEU A	23	-10.326	-10.211	-2.191	1.00	0.00
ATOM 308	2HD1	LEU A	23	-11.117	-10.084	-0.620	1.00	0.00
ATOM 309	3HD1	LEU A	23	-10.668	-11.667	-1.256	1.00	0.00
ATOM 310	1HD2	LEU A	23	-9.689	-11.912	0.955	1.00	0.00
ATOM 311	2HD2	LEU A	23	-9.551	-10.252	1.536	1.00	0.00
ATOM 312	3HD2	LEU A	23	-8.100	-11.219	1.274	1.00	0.00
ATOM 313	N	PRO A	24	-10.061	-14.109	-2.123	1.00	0.00
ATOM 314	CA	PRO A	24	-11.010	-14.591	-3.132	1.00	0.00
ATOM 315	C	PRO A	24	-11.926	-13.484	-3.643	1.00	0.00
ATOM 316	O	PRO A	24	-12.340	-12.607	-2.885	1.00	0.00
ATOM 317	CB	PRO A	24	-11.821	-15.654	-2.385	1.00	0.00
ATOM 318	CG	PRO A	24	-11.700	-15.286	-0.948	1.00	0.00
ATOM 319	CD	PRO A	24	-10.335	-14.679	-0.790	1.00	0.00
ATOM 320	HA	PRO A	24	-10.499	-15.046	-3.968	1.00	0.00
ATOM 321	1HB	PRO A	24	-12.849	-15.624	-2.717	1.00	0.00
ATOM 322	2HB	PRO A	24	-11.403	-16.631	-2.578	1.00	0.00
ATOM 323	1HG	PRO A	24	-12.463	-14.567	-0.687	1.00	0.00
ATOM 324	2HG	PRO A	24	-11.791	-16.169	-0.333	1.00	0.00

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ATOM 325	1HD	PRO	A	24	-10.350	-13.907	-0.035	1.00	0.00
ATOM 326	2HD	PRO	A	24	-9.610	-15.440	-0.540	1.00	0.00
ATOM 327	N	TYR	A	25	-12.237	-13.531	-4.934	1.00	0.00
ATOM 328	CA	TYR	A	25	-13.104	-12.532	-5.548	1.00	0.00
ATOM 329	C	TYR	A	25	-14.508	-13.088	-5.761	1.00	0.00
ATOM 330	O	TYR	A	25	-14.689	-14.102	-6.435	1.00	0.00
ATOM 331	CB	TYR	A	25	-12.517	-12.071	-6.884	1.00	0.00
ATOM 332	CG	TYR	A	25	-13.094	-10.765	-7.381	1.00	0.00
ATOM 333	CD1	TYR	A	25	-12.296	-9.634	-7.505	1.00	0.00
ATOM 334	CD2	TYR	A	25	-14.436	-10.661	-7.726	1.00	0.00
ATOM 335	CE1	TYR	A	25	-12.819	-8.438	-7.959	1.00	0.00
ATOM 336	CE2	TYR	A	25	-14.966	-9.469	-8.180	1.00	0.00
ATOM 337	CZ	TYR	A	25	-14.154	-8.361	-8.295	1.00	0.00
ATOM 338	OH	TYR	A	25	-14.678	-7.172	-8.747	1.00	0.00
ATOM 339	H	TYR	A	25	-11.875	-14.254	-5.487	1.00	0.00
ATOM 340	HA	TYR	A	25	-13.161	-11.687	-4.880	1.00	0.00
ATOM 341	1HB	TYR	A	25	-11.450	-11.942	-6.775	1.00	0.00
ATOM 342	2HB	TYR	A	25	-12.709	-12.825	-7.633	1.00	0.00
ATOM 343	HD1	TYR	A	25	-11.250	-9.697	-7.242	1.00	0.00
ATOM 344	HD2	TYR	A	25	-15.069	-11.531	-7.633	1.00	0.00
ATOM 345	HE1	TYR	A	25	-12.183	-7.569	-8.049	1.00	0.00
ATOM 346	HE2	TYR	A	25	-16.012	-9.409	-8.443	1.00	0.00
ATOM 347	HH	TYR	A	25	-15.528	-7.017	-8.330	1.00	0.00
ATOM 348	N	SER	A	26	-15.498	-12.417	-5.182	1.00	0.00
ATOM 349	CA	SER	A	26	-16.887	-12.845	-5.309	1.00	0.00
ATOM 350	C	SER	A	26	-17.770	-11.691	-5.771	1.00	0.00
ATOM 351	O	SER	A	26	-17.303	-10.565	-5.938	1.00	0.00

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ATOM 352	CB	SER A	26	-17.398	-13.390	-3.974	1.00	0.00
ATOM 353	OG	SER A	26	-17.773	-12.337	-3.103	1.00	0.00
ATOM 354	H	SER A	26	-15.290	-11.616	-4.658	1.00	0.00
ATOM 355	HA	SER A	26	-16.926	-13.631	-6.047	1.00	0.00
ATOM 356	1HB	SER A	26	-18.259	-14.018	-4.150	1.00	0.00
ATOM 357	2HB	SER A	26	-16.620	-13.971	-3.503	1.00	0.00
ATOM 358	HG	SER A	26	-17.075	-11.678	-3.077	1.00	0.00
ATOM 359	N	GLN A	27	-19.051	-11.979	-5.979	1.00	0.00
ATOM 360	CA	GLN A	27	-20.001	-10.966	-6.424	1.00	0.00
ATOM 361	C	GLN A	27	-20.112	-9.839	-5.402	1.00	0.00
ATOM 362	O	GLN A	27	-20.364	-8.687	-5.759	1.00	0.00
ATOM 363	CB	GLN A	27	-21.377	-11.593	-6.658	1.00	0.00
ATOM 364	CG	GLN A	27	-21.954	-12.272	-5.426	1.00	0.00
ATOM 365	CD	GLN A	27	-23.339	-12.839	-5.668	1.00	0.00
ATOM 366	OE1	GLN A	27	-24.148	-12.248	-6.382	1.00	0.00
ATOM 367	NE2	GLN A	27	-23.618	-13.992	-5.071	1.00	0.00
ATOM 368	H	GLN A	27	-19.365	-12.896	-5.830	1.00	0.00
ATOM 369	HA	GLN A	27	-19.639	-10.558	-7.354	1.00	0.00
ATOM 370	1HB	GLN A	27	-22.063	-10.821	-6.972	1.00	0.00
ATOM 371	2HB	GLN A	27	-21.295	-12.331	-7.443	1.00	0.00
ATOM 372	1HG	GLN A	27	-21.297	-13.078	-5.134	1.00	0.00
ATOM 373	2HG	GLN A	27	-22.011	-11.548	-4.626	1.00	0.00
ATOM 374	1HE2	GLN A	27	-22.925	-14.406	-4.517	1.00	0.00
ATOM 375	2HE2	GLN A	27	-24.507	-14.382	-5.211	1.00	0.00
ATOM 376	N	ASP A	28	-19.924	-10.177	-4.131	1.00	0.00
ATOM 377	CA	ASP A	28	-20.004	-9.193	-3.058	1.00	0.00
ATOM 378	C	ASP A	28	-18.964	-8.094	-3.250	1.00	0.00

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ATOM 379	O	ASP A	28	-19.281	-6.906	-3.174	1.00	0.00
ATOM 380	CB	ASP A	28	-19.803	-9.869	-1.701	1.00	0.00
ATOM 381	CG	ASP A	28	-20.997	-10.711	-1.294	1.00	0.00
ATOM 382	OD1	ASP A	28	-21.556	-10.460	-0.205	1.00	0.00
ATOM 383	OD2	ASP A	28	-21.373	-11.619	-2.062	1.00	0.00
ATOM 384	H	ASP A	28	-19.727	-11.111	-3.909	1.00	0.00
ATOM 385	HA	ASP A	28	-20.988	-8.750	-3.088	1.00	0.00
ATOM 386	1HB	ASP A	28	-18.935	-10.511	-1.750	1.00	0.00
ATOM 387	2HB	ASP A	28	-19.645	-9.112	-0.948	1.00	0.00
ATOM 388	N	ILE A	29	-17.723	-8.496	-3.500	1.00	0.00
ATOM 389	CA	ILE A	29	-16.637	-7.544	-3.703	1.00	0.00
ATOM 390	C	ILE A	29	-16.927	-6.625	-4.886	1.00	0.00
ATOM 391	O	ILE A	29	-16.465	-5.485	-4.927	1.00	0.00
ATOM 392	CB	ILE A	29	-15.294	-8.263	-3.939	1.00	0.00
ATOM 393	CG1	ILE A	29	-15.034	-9.287	-2.831	1.00	0.00
ATOM 394	CG2	ILE A	29	-14.157	-7.255	-4.011	1.00	0.00
ATOM 395	CD1	ILE A	29	-15.053	-8.691	-1.440	1.00	0.00
ATOM 396	H	ILE A	29	-17.533	-9.456	-3.549	1.00	0.00
ATOM 397	HA	ILE A	29	-16.548	-6.945	-2.808	1.00	0.00
ATOM 398	HB	ILE A	29	-15.347	-8.776	-4.887	1.00	0.00
ATOM 399	1HG1	ILE A	29	-15.791	-10.055	-2.873	1.00	0.00
ATOM 400	2HG1	ILE A	29	-14.063	-9.735	-2.987	1.00	0.00
ATOM 401	1HG2	ILE A	29	-13.218	-7.756	-3.827	1.00	0.00
ATOM 402	2HG2	ILE A	29	-14.308	-6.489	-3.264	1.00	0.00
ATOM 403	3HG2	ILE A	29	-14.138	-6.803	-4.992	1.00	0.00
ATOM 404	1HD1	ILE A	29	-15.007	-9.484	-0.708	1.00	0.00
ATOM 405	2HD1	ILE A	29	-15.964	-8.127	-1.303	1.00	0.00

ATOM 406	3HD1	ILE	A	29	-14.202	-8.037	-1.317	1.00	0.00
ATOM 407	N	ALA	A	30	-17.695	-7.127	-5.847	1.00	0.00
ATOM 408	CA	ALA	A	30	-18.046	-6.349	-7.030	1.00	0.00
ATOM 409	C	ALA	A	30	-18.965	-5.183	-6.675	1.00	0.00
ATOM 410	O	ALA	A	30	-19.092	-4.228	-7.441	1.00	0.00
ATOM 411	CB	ALA	A	30	-18.704	-7.243	-8.070	1.00	0.00
ATOM 412	H	ALA	A	30	-18.035	-8.042	-5.759	1.00	0.00
ATOM 413	HA	ALA	A	30	-17.133	-5.958	-7.453	1.00	0.00
ATOM 414	1HB	ALA	A	30	-18.487	-6.864	-9.059	1.00	0.00
ATOM 415	2HB	ALA	A	30	-19.773	-7.249	-7.915	1.00	0.00
ATOM 416	3HB	ALA	A	30	-18.320	-8.247	-7.978	1.00	0.00
ATOM 417	N	GLN	A	31	-19.606	-5.264	-5.511	1.00	0.00
ATOM 418	CA	GLN	A	31	-20.513	-4.213	-5.063	1.00	0.00
ATOM 419	C	GLN	A	31	-20.135	-3.728	-3.663	1.00	0.00
ATOM 420	O	GLN	A	31	-20.245	-4.477	-2.692	1.00	0.00
ATOM 421	CB	GLN	A	31	-21.955	-4.723	-5.066	1.00	0.00
ATOM 422	CG	GLN	A	31	-22.567	-4.808	-6.455	1.00	0.00
ATOM 423	CD	GLN	A	31	-23.509	-3.656	-6.749	1.00	0.00
ATOM 424	OE1	GLN	A	31	-24.650	-3.863	-7.162	1.00	0.00
ATOM 425	NE2	GLN	A	31	-23.033	-2.434	-6.538	1.00	0.00
ATOM 426	H	GLN	A	31	-19.467	-6.049	-4.941	1.00	0.00
ATOM 427	HA	GLN	A	31	-20.431	-3.390	-5.755	1.00	0.00
ATOM 428	1HB	GLN	A	31	-21.978	-5.708	-4.625	1.00	0.00
ATOM 429	2HB	GLN	A	31	-22.561	-4.057	-4.469	1.00	0.00
ATOM 430	1HG	GLN	A	31	-21.772	-4.798	-7.186	1.00	0.00
ATOM 431	2HG	GLN	A	31	-23.117	-5.734	-6.535	1.00	0.00
ATOM 432	1HE2	GLN	A	31	-22.114	-2.346	-6.208	1.00	0.00

ATOM 433	2HE2	GLN	A	31	-23.621	-1.672	-6.719	1.00	0.00
ATOM 434	N	PRO	A	32	-19.683	-2.467	-3.537	1.00	0.00
ATOM 435	CA	PRO	A	32	-19.292	-1.895	-2.244	1.00	0.00
ATOM 436	C	PRO	A	32	-20.387	-2.035	-1.190	1.00	0.00
ATOM 437	O	PRO	A	32	-20.112	-2.018	0.009	1.00	0.00
ATOM 438	CB	PRO	A	32	-19.046	-0.419	-2.564	1.00	0.00
ATOM 439	CG	PRO	A	32	-18.714	-0.396	-4.015	1.00	0.00
ATOM 440	CD	PRO	A	32	-19.518	-1.501	-4.640	1.00	0.00
ATOM 441	HA	PRO	A	32	-18.381	-2.343	-1.875	1.00	0.00
ATOM 442	1HB	PRO	A	32	-19.938	0.152	-2.352	1.00	0.00
ATOM 443	2HB	PRO	A	32	-18.225	-0.050	-1.966	1.00	0.00
ATOM 444	1HG	PRO	A	32	-18.992	0.557	-4.440	1.00	0.00
ATOM 445	2HG	PRO	A	32	-17.659	-0.576	-4.155	1.00	0.00
ATOM 446	1HD	PRO	A	32	-20.476	-1.129	-4.974	1.00	0.00
ATOM 447	2HD	PRO	A	32	-18.976	-1.945	-5.462	1.00	0.00
ATOM 448	N	SER	A	33	-21.630	-2.169	-1.644	1.00	0.00
ATOM 449	CA	SER	A	33	-22.766	-2.309	-0.738	1.00	0.00
ATOM 450	C	SER	A	33	-22.563	-3.479	0.220	1.00	0.00
ATOM 451	O	SER	A	33	-23.061	-3.465	1.347	1.00	0.00
ATOM 452	CB	SER	A	33	-24.057	-2.505	-1.533	1.00	0.00
ATOM 453	OG	SER	A	33	-25.196	-2.306	-0.713	1.00	0.00
ATOM 454	H	SER	A	33	-21.788	-2.174	-2.612	1.00	0.00
ATOM 455	HA	SER	A	33	-22.842	-1.399	-0.163	1.00	0.00
ATOM 456	1HB	SER	A	33	-24.087	-1.795	-2.347	1.00	0.00
ATOM 457	2HB	SER	A	33	-24.085	-3.509	-1.930	1.00	0.00
ATOM 458	HG	SER	A	33	-25.621	-1.479	-0.950	1.00	0.00
ATOM 459	N	THR	A	34	-21.831	-4.492	-0.233	1.00	0.00



ATOM 460	CA	THR A	34	-21.565	-5.669	0.586	1.00	0.00
ATOM 461	C	THR A	34	-20.533	-5.358	1.666	1.00	0.00
ATOM 462	O	THR A	34	-19.816	-4.361	1.586	1.00	0.00
ATOM 463	CB	THR A	34	-21.075	-6.825	-0.287	1.00	0.00
ATOM 464	OG1	THR A	34	-19.762	-6.574	-0.759	1.00	0.00
ATOM 465	CG2	THR A	34	-21.955	-7.081	-1.490	1.00	0.00
ATOM 466	H	THR A	34	-21.460	-4.447	-1.139	1.00	0.00
ATOM 467	HA	THR A	34	-22.490	-5.957	1.062	1.00	0.00
ATOM 468	HB	THR A	34	-21.055	-7.727	0.307	1.00	0.00
ATOM 469	HG1	THR A	34	-19.722	-5.695	-1.143	1.00	0.00
ATOM 470	1HG2	THR A	34	-22.882	-6.538	-1.380	1.00	0.00
ATOM 471	2HG2	THR A	34	-22.163	-8.138	-1.565	1.00	0.00
ATOM 472	3HG2	THR A	34	-21.448	-6.750	-2.385	1.00	0.00
ATOM 473	N	THR A	35	-20.466	-6.220	2.677	1.00	0.00
ATOM 474	CA	THR A	35	-19.522	-6.039	3.774	1.00	0.00
ATOM 475	C	THR A	35	-18.143	-6.577	3.406	1.00	0.00
ATOM 476	O	THR A	35	-17.124	-6.083	3.888	1.00	0.00
ATOM 477	CB	THR A	35	-20.035	-6.737	5.034	1.00	0.00
ATOM 478	OG1	THR A	35	-21.402	-6.439	5.253	1.00	0.00
ATOM 479	CG2	THR A	35	-19.274	-6.349	6.285	1.00	0.00
ATOM 480	H	THR A	35	-21.064	-6.995	2.685	1.00	0.00
ATOM 481	HA	THR A	35	-19.440	-4.979	3.969	1.00	0.00
ATOM 482	HB	THR A	35	-19.936	-7.806	4.906	1.00	0.00
ATOM 483	HG1	THR A	35	-21.938	-7.199	5.014	1.00	0.00
ATOM 484	1HG2	THR A	35	-18.284	-6.778	6.251	1.00	0.00
ATOM 485	2HG2	THR A	35	-19.798	-6.721	7.153	1.00	0.00
ATOM 486	3HG2	THR A	35	-19.200	-5.274	6.341	1.00	0.00

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ATOM 487	N	LYS A	36	-18.119	-7.594	2.549	1.00	0.00
ATOM 488	CA	LYS A	36	-16.864	-8.199	2.116	1.00	0.00
ATOM 489	C	LYS A	36	-15.960	-7.167	1.449	1.00	0.00
ATOM 490	O	LYS A	36	-14.735	-7.276	1.500	1.00	0.00
ATOM 491	CB	LYS A	36	-17.139	-9.355	1.151	1.00	0.00
ATOM 492	CG	LYS A	36	-16.187	-10.528	1.322	1.00	0.00
ATOM 493	CD	LYS A	36	-16.496	-11.643	0.335	1.00	0.00
ATOM 494	CE	LYS A	36	-15.405	-12.701	0.331	1.00	0.00
ATOM 495	NZ	LYS A	36	-15.317	-13.403	-0.980	1.00	0.00
ATOM 496	H	LYS A	36	-18.964	-7.945	2.200	1.00	0.00
ATOM 497	HA	LYS A	36	-16.364	-8.584	2.991	1.00	0.00
ATOM 498	1HB	LYS A	36	-18.146	-9.710	1.311	1.00	0.00
ATOM 499	2HB	LYS A	36	-17.051	-8.991	0.139	1.00	0.00
ATOM 500	1HG	LYS A	36	-15.176	-10.186	1.157	1.00	0.00
ATOM 501	2HG	LYS A	36	-16.280	-10.912	2.327	1.00	0.00
ATOM 502	1HD	LYS A	36	-17.431	-12.107	0.613	1.00	0.00
ATOM 503	2HD	LYS A	36	-16.581	-11.220	-0.655	1.00	0.00
ATOM 504	1HE	LYS A	36	-14.458	-12.224	0.537	1.00	0.00
ATOM 505	2HE	LYS A	36	-15.619	-13.424	1.104	1.00	0.00
ATOM 506	1HZ	LYS A	36	-14.460	-13.991	-1.014	1.00	0.00
ATOM 507	2HZ	LYS A	36	-15.280	-12.709	-1.754	1.00	0.00
ATOM 508	3HZ	LYS A	36	-16.149	-14.012	-1.115	1.00	0.00
ATOM 509	N	TYR A	37	-16.572	-6.168	0.821	1.00	0.00
ATOM 510	CA	TYR A	37	-15.821	-5.118	0.143	1.00	0.00
ATOM 511	C	TYR A	37	-15.327	-4.073	1.136	1.00	0.00
ATOM 512	O	TYR A	37	-14.136	-3.763	1.186	1.00	0.00
ATOM 513	CB	TYR A	37	-16.687	-4.452	-0.926	1.00	0.00

ATOM 514	CG	TYR A	37	-15.960	-3.386	-1.716	1.00	0.00
ATOM 515	CD1	TYR A	37	-15.967	-2.060	-1.301	1.00	0.00
ATOM 516	CD2	TYR A	37	-15.267	-3.707	-2.877	1.00	0.00
ATOM 517	CE1	TYR A	37	-15.304	-1.084	-2.019	1.00	0.00
ATOM 518	CE2	TYR A	37	-14.602	-2.736	-3.600	1.00	0.00
ATOM 519	CZ	TYR A	37	-14.623	-1.427	-3.168	1.00	0.00
ATOM 520	OH	TYR A	37	-13.960	-0.458	-3.886	1.00	0.00
ATOM 521	H	TYR A	37	-17.552	-6.136	0.814	1.00	0.00
ATOM 522	HA	TYR A	37	-14.967	-5.577	-0.333	1.00	0.00
ATOM 523	1HB	TYR A	37	-17.031	-5.203	-1.622	1.00	0.00
ATOM 524	2HB	TYR A	37	-17.541	-3.990	-0.452	1.00	0.00
ATOM 525	HD1	TYR A	37	-16.502	-1.796	-0.400	1.00	0.00
ATOM 526	HD2	TYR A	37	-15.253	-4.733	-3.213	1.00	0.00
ATOM 527	HE1	TYR A	37	-15.320	-0.059	-1.679	1.00	0.00
ATOM 528	HE2	TYR A	37	-14.069	-3.005	-4.501	1.00	0.00
ATOM 529	HH	TYR A	37	-13.055	-0.389	-3.572	1.00	0.00
ATOM 530	N	GLN A	38	-16.248	-3.532	1.927	1.00	0.00
ATOM 531	CA	GLN A	38	-15.906	-2.520	2.920	1.00	0.00
ATOM 532	C	GLN A	38	-14.897	-3.065	3.925	1.00	0.00
ATOM 533	O	GLN A	38	-14.070	-2.322	4.453	1.00	0.00
ATOM 534	CB	GLN A	38	-17.166	-2.046	3.648	1.00	0.00
ATOM 535	CG	GLN A	38	-18.244	-1.519	2.717	1.00	0.00
ATOM 536	CD	GLN A	38	-19.413	-0.909	3.466	1.00	0.00
ATOM 537	OE1	GLN A	38	-19.544	-1.077	4.678	1.00	0.00
ATOM 538	NE2	GLN A	38	-20.269	-0.194	2.745	1.00	0.00
ATOM 539	H	GLN A	38	-17.181	-3.821	1.839	1.00	0.00
ATOM 540	HA	GLN A	38	-15.465	-1.683	2.401	1.00	0.00

ATOM 541	1HB	GLN A	38	-17.575	-2.873	4.209	1.00	0.00
ATOM 542	2HB	GLN A	38	-16.894	-1.257	4.334	1.00	0.00
ATOM 543	1HG	GLN A	38	-17.813	-0.764	2.077	1.00	0.00
ATOM 544	2HG	GLN A	38	-18.611	-2.336	2.112	1.00	0.00
ATOM 545	1HE2	GLN A	38	-20.101	-0.102	1.784	1.00	0.00
ATOM 546	2HE2	GLN A	38	-21.033	0.212	3.204	1.00	0.00
ATOM 547	N	GLN A	39	-14.971	-4.366	4.186	1.00	0.00
ATOM 548	CA	GLN A	39	-14.064	-5.010	5.128	1.00	0.00
ATOM 549	C	GLN A	39	-12.635	-5.011	4.594	1.00	0.00
ATOM 550	O	GLN A	39	-11.747	-4.379	5.168	1.00	0.00
ATOM 551	CB	GLN A	39	-14.519	-6.444	5.404	1.00	0.00
ATOM 552	CG	GLN A	39	-15.552	-6.552	6.513	1.00	0.00
ATOM 553	CD	GLN A	39	-14.965	-7.074	7.810	1.00	0.00
ATOM 554	OE1	GLN A	39	-14.920	-6.365	8.815	1.00	0.00
ATOM 555	NE2	GLN A	39	-14.511	-8.322	7.793	1.00	0.00
ATOM 556	H	GLN A	39	-15.653	-4.906	3.733	1.00	0.00
ATOM 557	HA	GLN A	39	-14.091	-4.449	6.050	1.00	0.00
ATOM 558	1HB	GLN A	39	-14.946	-6.854	4.502	1.00	0.00
ATOM 559	2HB	GLN A	39	-13.658	-7.035	5.685	1.00	0.00
ATOM 560	1HG	GLN A	39	-15.970	-5.573	6.694	1.00	0.00
ATOM 561	2HG	GLN A	39	-16.336	-7.223	6.193	1.00	0.00
ATOM 562	1HE2	GLN A	39	-14.580	-8.829	6.957	1.00	0.00
ATOM 563	2HE2	GLN A	39	-14.126	-8.686	8.618	1.00	0.00
ATOM 564	N	THR A	40	-12.420	-5.725	3.495	1.00	0.00
ATOM 565	CA	THR A	40	-11.098	-5.808	2.884	1.00	0.00
ATOM 566	C	THR A	40	-10.612	-4.432	2.444	1.00	0.00
ATOM 567	O	THR A	40	-9.413	-4.155	2.447	1.00	0.00

ATOM 568	CB	THR	A	40	-11.126	-6.759	1.686	1.00	0.00
ATOM 569	OG1	THR	A	40	-11.877	-7.922	1.986	1.00	0.00
ATOM 570	CG2	THR	A	40	-9.749	-7.204	1.243	1.00	0.00
ATOM 571	H	THR	A	40	-13.167	-6.207	3.083	1.00	0.00
ATOM 572	HA	THR	A	40	-10.415	-6.198	3.624	1.00	0.00
ATOM 573	HB	THR	A	40	-11.595	-6.257	0.853	1.00	0.00
ATOM 574	HG1	THR	A	40	-12.757	-7.838	1.613	1.00	0.00
ATOM 575	1HG2	THR	A	40	-9.509	-6.744	0.296	1.00	0.00
ATOM 576	2HG2	THR	A	40	-9.735	-8.279	1.135	1.00	0.00
ATOM 577	3HG2	THR	A	40	-9.019	-6.907	1.982	1.00	0.00
ATOM 578	N	LYS	A	41	-11.551	-3.571	2.065	1.00	0.00
ATOM 579	CA	LYS	A	41	-11.218	-2.221	1.622	1.00	0.00
ATOM 580	C	LYS	A	41	-10.655	-1.393	2.773	1.00	0.00
ATOM 581	O	LYS	A	41	-9.825	-0.508	2.566	1.00	0.00
ATOM 582	CB	LYS	A	41	-12.453	-1.533	1.039	1.00	0.00
ATOM 583	CG	LYS	A	41	-12.163	-0.166	0.441	1.00	0.00
ATOM 584	CD	LYS	A	41	-13.400	0.715	0.439	1.00	0.00
ATOM 585	CE	LYS	A	41	-13.158	2.015	-0.312	1.00	0.00
ATOM 586	NZ	LYS	A	41	-13.453	1.881	-1.765	1.00	0.00
ATOM 587	H	LYS	A	41	-12.491	-3.848	2.085	1.00	0.00
ATOM 588	HA	LYS	A	41	-10.466	-2.303	0.852	1.00	0.00
ATOM 589	1HB	LYS	A	41	-12.868	-2.160	0.265	1.00	0.00
ATOM 590	2HB	LYS	A	41	-13.186	-1.410	1.824	1.00	0.00
ATOM 591	1HG	LYS	A	41	-11.391	0.315	1.024	1.00	0.00
ATOM 592	2HG	LYS	A	41	-11.820	-0.295	-0.575	1.00	0.00
ATOM 593	1HD	LYS	A	41	-14.209	0.182	-0.038	1.00	0.00
ATOM 594	2HD	LYS	A	41	-13.670	0.944	1.459	1.00	0.00

ATOM 595	1HE	LYS	A	41	-13.795	2.781	0.106	1.00	0.00
ATOM 596	2HE	LYS	A	41	-12.124	2.300	-0.187	1.00	0.00
ATOM 597	1HZ	LYS	A	41	-12.974	1.043	-2.152	1.00	0.00
ATOM 598	2HZ	LYS	A	41	-13.121	2.723	-2.277	1.00	0.00
ATOM 599	3HZ	LYS	A	41	-14.478	1.780	-1.915	1.00	0.00
ATOM 600	N	ARG	A	42	-11.113	-1.686	3.987	1.00	0.00
ATOM 601	CA	ARG	A	42	-10.654	-0.968	5.170	1.00	0.00
ATOM 602	C	ARG	A	42	-9.343	-1.549	5.687	1.00	0.00
ATOM 603	O	ARG	A	42	-8.446	-0.814	6.099	1.00	0.00
ATOM 604	CB	ARG	A	42	-11.718	-1.020	6.269	1.00	0.00
ATOM 605	CG	ARG	A	42	-11.411	-0.122	7.455	1.00	0.00
ATOM 606	CD	ARG	A	42	-12.489	-0.219	8.523	1.00	0.00
ATOM 607	NE	ARG	A	42	-12.096	-1.101	9.620	1.00	0.00
ATOM 608	CZ	ARG	A	42	-12.670	-1.091	10.820	1.00	0.00
ATOM 609	NH1	ARG	A	42	-13.662	-0.249	11.083	1.00	0.00
ATOM 610	NH2	ARG	A	42	-12.252	-1.927	11.761	1.00	0.00
ATOM 611	H	ARG	A	42	-11.774	-2.402	4.088	1.00	0.00
ATOM 612	HA	ARG	A	42	-10.491	0.063	4.889	1.00	0.00
ATOM 613	1HB	ARG	A	42	-12.666	-0.716	5.850	1.00	0.00
ATOM 614	2HB	ARG	A	42	-11.801	-2.037	6.625	1.00	0.00
ATOM 615	1HG	ARG	A	42	-10.467	-0.420	7.885	1.00	0.00
ATOM 616	2HG	ARG	A	42	-11.347	0.901	7.113	1.00	0.00
ATOM 617	1HD	ARG	A	42	-12.677	0.769	8.917	1.00	0.00
ATOM 618	2HD	ARG	A	42	-13.392	-0.603	8.070	1.00	0.00
ATOM 619	HE	ARG	A	42	-11.367	-1.733	9.452	1.00	0.00
ATOM 620	1HH1	ARG	A	42	-13.982	0.383	10.378	1.00	0.00
ATOM 621	2HH1	ARG	A	42	-14.089	-0.248	11.987	1.00	0.00

ATOM 622	1HH2	ARG	A	42	-11.505	-2.564	11.569	1.00	0.00
ATOM 623	2HH2	ARG	A	42	-12.683	-1.921	12.664	1.00	0.00
ATOM 624	N	SER	A	43	-9.239	-2.874	5.664	1.00	0.00
ATOM 625	CA	SER	A	43	-8.036	-3.555	6.133	1.00	0.00
ATOM 626	C	SER	A	43	-6.814	-3.112	5.334	1.00	0.00
ATOM 627	O	SER	A	43	-5.748	-2.865	5.898	1.00	0.00
ATOM 628	CB	SER	A	43	-8.208	-5.071	6.025	1.00	0.00
ATOM 629	OG	SER	A	43	-7.213	-5.752	6.770	1.00	0.00
ATOM 630	H	SER	A	43	-9.988	-3.407	5.325	1.00	0.00
ATOM 631	HA	SER	A	43	-7.889	-3.291	7.169	1.00	0.00
ATOM 632	1HB	SER	A	43	-9.178	-5.349	6.407	1.00	0.00
ATOM 633	2HB	SER	A	43	-8.130	-5.367	4.989	1.00	0.00
ATOM 634	HG	SER	A	43	-7.490	-5.821	7.686	1.00	0.00
ATOM 635	N	ILE	A	44	-6.976	-3.013	4.019	1.00	0.00
ATOM 636	CA	ILE	A	44	-5.886	-2.598	3.144	1.00	0.00
ATOM 637	C	ILE	A	44	-5.553	-1.123	3.344	1.00	0.00
ATOM 638	O	ILE	A	44	-4.385	-0.750	3.452	1.00	0.00
ATOM 639	CB	ILE	A	44	-6.229	-2.843	1.661	1.00	0.00
ATOM 640	CG1	ILE	A	44	-6.706	-4.283	1.455	1.00	0.00
ATOM 641	CG2	ILE	A	44	-5.025	-2.548	0.781	1.00	0.00
ATOM 642	CD1	ILE	A	44	-7.651	-4.445	0.285	1.00	0.00
ATOM 643	H	ILE	A	44	-7.850	-3.222	3.628	1.00	0.00
ATOM 644	HA	ILE	A	44	-5.016	-3.190	3.393	1.00	0.00
ATOM 645	HB	ILE	A	44	-7.023	-2.165	1.383	1.00	0.00
ATOM 646	1HG1	ILE	A	44	-5.849	-4.916	1.279	1.00	0.00
ATOM 647	2HG1	ILE	A	44	-7.218	-4.617	2.345	1.00	0.00
ATOM 648	1HG2	ILE	A	44	-4.120	-2.649	1.361	1.00	0.00

ATOM 649	2HG2	ILE	A	44	-5.096	-1.539	0.399	1.00	0.00
ATOM 650	3HG2	ILE	A	44	-5.003	-3.243	-0.045	1.00	0.00
ATOM 651	1HD1	ILE	A	44	-8.500	-5.040	0.589	1.00	0.00
ATOM 652	2HD1	ILE	A	44	-7.137	-4.938	-0.527	1.00	0.00
ATOM 653	3HD1	ILE	A	44	-7.991	-3.473	-0.041	1.00	0.00
ATOM 654	N	GLU	A	45	-6.586	-0.289	3.390	1.00	0.00
ATOM 655	CA	GLU	A	45	-6.402	1.146	3.578	1.00	0.00
ATOM 656	C	GLU	A	45	-5.698	1.436	4.900	1.00	0.00
ATOM 657	O	GLU	A	45	-4.840	2.313	4.979	1.00	0.00
ATOM 658	CB	GLU	A	45	-7.752	1.864	3.535	1.00	0.00
ATOM 659	CG	GLU	A	45	-7.718	3.179	2.771	1.00	0.00
ATOM 660	CD	GLU	A	45	-7.640	4.384	3.688	1.00	0.00
ATOM 661	OE1	GLU	A	45	-8.272	5.413	3.370	1.00	0.00
ATOM 662	OE2	GLU	A	45	-6.947	4.298	4.723	1.00	0.00
ATOM 663	H	GLU	A	45	-7.494	-0.647	3.298	1.00	0.00
ATOM 664	HA	GLU	A	45	-5.785	1.509	2.769	1.00	0.00
ATOM 665	1HB	GLU	A	45	-8.477	1.218	3.062	1.00	0.00
ATOM 666	2HB	GLU	A	45	-8.071	2.069	4.547	1.00	0.00
ATOM 667	1HG	GLU	A	45	-6.854	3.182	2.124	1.00	0.00
ATOM 668	2HG	GLU	A	45	-8.615	3.255	2.173	1.00	0.00
ATOM 669	N	ASN	A	46	-6.069	0.691	5.937	1.00	0.00
ATOM 670	CA	ASN	A	46	-5.473	0.867	7.257	1.00	0.00
ATOM 671	C	ASN	A	46	-4.043	0.338	7.281	1.00	0.00
ATOM 672	O	ASN	A	46	-3.165	0.919	7.919	1.00	0.00
ATOM 673	CB	ASN	A	46	-6.313	0.151	8.317	1.00	0.00
ATOM 674	CG	ASN	A	46	-5.772	0.354	9.719	1.00	0.00
ATOM 675	OD1	ASN	A	46	-5.358	1.453	10.085	1.00	0.00



ATOM 676	ND2	ASN	A	46	-5.772	-0.712	10.512	1.00	0.00
ATOM 677	H	ASN	A	46	-6.759	0.005	5.811	1.00	0.00
ATOM 678	HA	ASN	A	46	-5.458	1.924	7.475	1.00	0.00
ATOM 679	1HB	ASN	A	46	-7.323	0.531	8.284	1.00	0.00
ATOM 680	2HB	ASN	A	46	-6.324	-0.908	8.104	1.00	0.00
ATOM 681	1HD2	ASN	A	46	-6.116	-1.556	10.154	1.00	0.00
ATOM 682	2HD2	ASN	A	46	-5.428	-0.610	11.424	1.00	0.00
ATOM 683	N	ALA	A	47	-3.816	-0.770	6.582	1.00	0.00
ATOM 684	CA	ALA	A	47	-2.494	-1.379	6.521	1.00	0.00
ATOM 685	C	ALA	A	47	-1.523	-0.504	5.737	1.00	0.00
ATOM 686	O	ALA	A	47	-0.336	-0.432	6.057	1.00	0.00
ATOM 687	CB	ALA	A	47	-2.582	-2.763	5.897	1.00	0.00
ATOM 688	H	ALA	A	47	-4.557	-1.186	6.094	1.00	0.00
ATOM 689	HA	ALA	A	47	-2.130	-1.487	7.532	1.00	0.00
ATOM 690	1HB	ALA	A	47	-2.961	-2.681	4.889	1.00	0.00
ATOM 691	2HB	ALA	A	47	-3.248	-3.380	6.482	1.00	0.00
ATOM 692	3HB	ALA	A	47	-1.600	-3.212	5.877	1.00	0.00
ATOM 693	N	LEU	A	48	-2.034	0.162	4.706	1.00	0.00
ATOM 694	CA	LEU	A	48	-1.212	1.033	3.873	1.00	0.00
ATOM 695	C	LEU	A	48	-0.844	2.310	4.620	1.00	0.00
ATOM 696	O	LEU	A	48	0.218	2.891	4.392	1.00	0.00
ATOM 697	CB	LEU	A	48	-1.950	1.380	2.579	1.00	0.00
ATOM 698	CG	LEU	A	48	-2.089	0.226	1.583	1.00	0.00
ATOM 699	CD1	LEU	A	48	-3.101	0.573	0.502	1.00	0.00
ATOM 700	CD2	LEU	A	48	-0.739	-0.108	0.965	1.00	0.00
ATOM 701	H	LEU	A	48	-2.987	0.064	4.500	1.00	0.00
ATOM 702	HA	LEU	A	48	-0.306	0.499	3.629	1.00	0.00

ATOM 703	1HB	LEU	A	48	-2.940	1.728	2.835	1.00	0.00
ATOM 704	2HB	LEU	A	48	-1.419	2.183	2.091	1.00	0.00
ATOM 705	HG	LEU	A	48	-2.445	-0.650	2.105	1.00	0.00
ATOM 706	1HD1	LEU	A	48	-2.609	1.118	-0.290	1.00	0.00
ATOM 707	2HD1	LEU	A	48	-3.886	1.182	0.925	1.00	0.00
ATOM 708	3HD1	LEU	A	48	-3.526	-0.336	0.102	1.00	0.00
ATOM 709	1HD2	LEU	A	48	-0.457	0.672	0.275	1.00	0.00
ATOM 710	2HD2	LEU	A	48	-0.809	-1.048	0.437	1.00	0.00
ATOM 711	3HD2	LEU	A	48	0.004	-0.188	1.744	1.00	0.00
ATOM 712	N	ASN	A	49	-1.728	2.745	5.512	1.00	0.00
ATOM 713	CA	ASN	A	49	-1.496	3.957	6.292	1.00	0.00
ATOM 714	C	ASN	A	49	-0.252	3.816	7.164	1.00	0.00
ATOM 715	O	ASN	A	49	0.697	4.589	7.037	1.00	0.00
ATOM 716	CB	ASN	A	49	-2.714	4.265	7.164	1.00	0.00
ATOM 717	CG	ASN	A	49	-3.019	5.749	7.227	1.00	0.00
ATOM 718	OD1	ASN	A	49	-2.643	6.432	8.179	1.00	0.00
ATOM 719	ND2	ASN	A	49	-3.705	6.254	6.209	1.00	0.00
ATOM 720	H	ASN	A	49	-2.557	2.241	5.649	1.00	0.00
ATOM 721	HA	ASN	A	49	-1.345	4.771	5.600	1.00	0.00
ATOM 722	1HB	ASN	A	49	-3.576	3.757	6.761	1.00	0.00
ATOM 723	2HB	ASN	A	49	-2.529	3.911	8.169	1.00	0.00
ATOM 724	1HD2	ASN	A	49	-3.972	5.651	5.485	1.00	0.00
ATOM 725	2HD2	ASN	A	49	-3.917	7.212	6.223	1.00	0.00
ATOM 726	N	GLN	A	50	-0.265	2.825	8.049	1.00	0.00
ATOM 727	CA	GLN	A	50	0.861	2.583	8.944	1.00	0.00
ATOM 728	C	GLN	A	50	2.138	2.311	8.156	1.00	0.00
ATOM 729	O	GLN	A	50	3.239	2.619	8.612	1.00	0.00

ATOM 730	CB	GLN A	50	0.558	1.403	9.869	1.00	0.00
ATOM 731	CG	GLN A	50	0.231	0.117	9.128	1.00	0.00
ATOM 732	CD	GLN A	50	-0.389	-0.932	10.030	1.00	0.00
ATOM 733	OE1	GLN A	50	0.307	-1.597	10.798	1.00	0.00
ATOM 734	NE2	GLN A	50	-1.705	-1.088	9.941	1.00	0.00
ATOM 735	H	GLN A	50	-1.052	2.243	8.103	1.00	0.00
ATOM 736	HA	GLN A	50	1.004	3.470	9.543	1.00	0.00
ATOM 737	1HB	GLN A	50	1.419	1.223	10.496	1.00	0.00
ATOM 738	2HB	GLN A	50	-0.285	1.658	10.495	1.00	0.00
ATOM 739	1HG	GLN A	50	-0.465	0.342	8.333	1.00	0.00
ATOM 740	2HG	GLN A	50	1.141	-0.283	8.707	1.00	0.00
ATOM 741	1HE2	GLN A	50	-2.195	-0.524	9.307	1.00	0.00
ATOM 742	2HE2	GLN A	50	-2.131	-1.759	10.513	1.00	0.00
ATOM 743	N	LEU A	51	1.986	1.731	6.969	1.00	0.00
ATOM 744	CA	LEU A	51	3.128	1.417	6.119	1.00	0.00
ATOM 745	C	LEU A	51	3.891	2.682	5.740	1.00	0.00
ATOM 746	O	LEU A	51	5.118	2.671	5.642	1.00	0.00
ATOM 747	CB	LEU A	51	2.664	0.686	4.858	1.00	0.00
ATOM 748	CG	LEU A	51	3.768	-0.040	4.086	1.00	0.00
ATOM 749	CD1	LEU A	51	3.206	-1.258	3.372	1.00	0.00
ATOM 750	CD2	LEU A	51	4.430	0.903	3.093	1.00	0.00
ATOM 751	H	LEU A	51	1.083	1.508	6.659	1.00	0.00
ATOM 752	HA	LEU A	51	3.786	0.768	6.678	1.00	0.00
ATOM 753	1HB	LEU A	51	1.916	-0.040	5.143	1.00	0.00
ATOM 754	2HB	LEU A	51	2.208	1.407	4.196	1.00	0.00
ATOM 755	HG	LEU A	51	4.522	-0.378	4.782	1.00	0.00
ATOM 756	1HD1	LEU A	51	2.288	-0.992	2.872	1.00	0.00

ATOM 757	2HD1	LEU	A	51	3.010	-2.040	4.092	1.00	0.00
ATOM 758	3HD1	LEU	A	51	3.923	-1.612	2.645	1.00	0.00
ATOM 759	1HD2	LEU	A	51	5.223	0.382	2.576	1.00	0.00
ATOM 760	2HD2	LEU	A	51	4.842	1.752	3.621	1.00	0.00
ATOM 761	3HD2	LEU	A	51	3.698	1.245	2.377	1.00	0.00
ATOM 762	N	PHE	A	52	3.159	3.770	5.527	1.00	0.00
ATOM 763	CA	PHE	A	52	3.769	5.042	5.157	1.00	0.00
ATOM 764	C	PHE	A	52	4.402	5.717	6.369	1.00	0.00
ATOM 765	O	PHE	A	52	5.494	6.276	6.282	1.00	0.00
ATOM 766	CB	PHE	A	52	2.725	5.968	4.531	1.00	0.00
ATOM 767	CG	PHE	A	52	1.840	5.288	3.526	1.00	0.00
ATOM 768	CD1	PHE	A	52	0.473	5.514	3.523	1.00	0.00
ATOM 769	CD2	PHE	A	52	2.374	4.424	2.583	1.00	0.00
ATOM 770	CE1	PHE	A	52	-0.345	4.891	2.600	1.00	0.00
ATOM 771	CE2	PHE	A	52	1.562	3.797	1.657	1.00	0.00
ATOM 772	CZ	PHE	A	52	0.200	4.031	1.665	1.00	0.00
ATOM 773	H	PHE	A	52	2.184	3.716	5.619	1.00	0.00
ATOM 774	HA	PHE	A	52	4.540	4.839	4.428	1.00	0.00
ATOM 775	1HB	PHE	A	52	2.094	6.368	5.310	1.00	0.00
ATOM 776	2HB	PHE	A	52	3.231	6.782	4.032	1.00	0.00
ATOM 777	HD1	PHE	A	52	0.045	6.186	4.252	1.00	0.00
ATOM 778	HD2	PHE	A	52	3.439	4.241	2.576	1.00	0.00
ATOM 779	HE1	PHE	A	52	-1.409	5.075	2.609	1.00	0.00
ATOM 780	HE2	PHE	A	52	1.991	3.126	0.929	1.00	0.00
ATOM 781	HZ	PHE	A	52	-0.436	3.543	0.943	1.00	0.00
ATOM 782	N	ARG	A	53	3.705	5.663	7.500	1.00	0.00
ATOM 783	CA	ARG	A	53	4.195	6.271	8.732	1.00	0.00

ATOM 784	C	ARG	A	53	5.451	5.565	9.235	1.00	0.00
ATOM 785	O	ARG	A	53	6.274	6.162	9.928	1.00	0.00
ATOM 786	CB	ARG	A	53	3.110	6.232	9.810	1.00	0.00
ATOM 787	CG	ARG	A	53	1.893	7.081	9.477	1.00	0.00
ATOM 788	CD	ARG	A	53	1.831	8.335	10.338	1.00	0.00
ATOM 789	NE	ARG	A	53	0.809	8.235	11.378	1.00	0.00
ATOM 790	CZ	ARG	A	53	-0.498	8.321	11.141	1.00	0.00
ATOM 791	NH1	ARG	A	53	-0.946	8.510	9.906	1.00	0.00
ATOM 792	NH2	ARG	A	53	-1.360	8.219	12.144	1.00	0.00
ATOM 793	H	ARG	A	53	2.838	5.204	7.506	1.00	0.00
ATOM 794	HA	ARG	A	53	4.438	7.301	8.518	1.00	0.00
ATOM 795	1HB	ARG	A	53	2.785	5.210	9.939	1.00	0.00
ATOM 796	2HB	ARG	A	53	3.529	6.588	10.739	1.00	0.00
ATOM 797	1HG	ARG	A	53	1.943	7.374	8.439	1.00	0.00
ATOM 798	2HG	ARG	A	53	1.002	6.495	9.646	1.00	0.00
ATOM 799	1HD	ARG	A	53	2.793	8.482	10.806	1.00	0.00
ATOM 800	2HD	ARG	A	53	1.607	9.180	9.705	1.00	0.00
ATOM 801	HE	ARG	A	53	1.112	8.096	12.298	1.00	0.00
ATOM 802	1HH1	ARG	A	53	-0.301	8.589	9.146	1.00	0.00
ATOM 803	2HH1	ARG	A	53	-1.929	8.575	9.736	1.00	0.00
ATOM 804	1HH2	ARG	A	53	-1.029	8.077	13.077	1.00	0.00
ATOM 805	2HH2	ARG	A	53	-2.343	8.285	11.968	1.00	0.00
ATOM 806	N	ASN	A	54	5.591	4.289	8.884	1.00	0.00
ATOM 807	CA	ASN	A	54	6.746	3.505	9.306	1.00	0.00
ATOM 808	C	ASN	A	54	7.894	3.635	8.309	1.00	0.00
ATOM 809	O	ASN	A	54	9.064	3.536	8.679	1.00	0.00
ATOM 810	CB	ASN	A	54	6.357	2.033	9.464	1.00	0.00

ATOM 811	CG	ASN A	54	5.709	1.747	10.804	1.00	0.00
ATOM 812	OD1	ASN A	54	6.258	2.076	11.855	1.00	0.00
ATOM 813	ND2	ASN A	54	4.535	1.128	10.772	1.00	0.00
ATOM 814	H	ASN A	54	4.901	3.866	8.333	1.00	0.00
ATOM 815	HA	ASN A	54	7.072	3.885	10.263	1.00	0.00
ATOM 816	1HB	ASN A	54	5.661	1.766	8.684	1.00	0.00
ATOM 817	2HB	ASN A	54	7.243	1.422	9.374	1.00	0.00
ATOM 818	1HD2	ASN A	54	4.158	0.895	9.899	1.00	0.00
ATOM 819	2HD2	ASN A	54	4.093	0.929	11.624	1.00	0.00
ATOM 820	N	SER A	55	7.553	3.854	7.044	1.00	0.00
ATOM 821	CA	SER A	55	8.557	3.994	5.994	1.00	0.00
ATOM 822	C	SER A	55	9.388	5.258	6.197	1.00	0.00
ATOM 823	O	SER A	55	8.984	6.171	6.917	1.00	0.00
ATOM 824	CB	SER A	55	7.888	4.026	4.620	1.00	0.00
ATOM 825	OG	SER A	55	6.770	4.897	4.617	1.00	0.00
ATOM 826	H	SER A	55	6.604	3.921	6.809	1.00	0.00
ATOM 827	HA	SER A	55	9.211	3.136	6.046	1.00	0.00
ATOM 828	1HB	SER A	55	8.598	4.371	3.884	1.00	0.00
ATOM 829	2HB	SER A	55	7.555	3.032	4.360	1.00	0.00
ATOM 830	HG	SER A	55	6.833	5.498	3.872	1.00	0.00
ATOM 831	N	SER A	56	10.551	5.301	5.555	1.00	0.00
ATOM 832	CA	SER A	56	11.443	6.451	5.661	1.00	0.00
ATOM 833	C	SER A	56	10.756	7.721	5.168	1.00	0.00
ATOM 834	O	SER A	56	11.097	8.826	5.590	1.00	0.00
ATOM 835	CB	SER A	56	12.722	6.205	4.860	1.00	0.00
ATOM 836	OG	SER A	56	13.811	6.933	5.401	1.00	0.00
ATOM 837	H	SER A	56	10.818	4.541	4.996	1.00	0.00

ATOM 838	HA	SER A	56	11.699	6.576	6.702	1.00	0.00
ATOM 839	1HB	SER A	56	12.962	5.154	4.881	1.00	0.00
ATOM 840	2HB	SER A	56	12.569	6.519	3.837	1.00	0.00
ATOM 841	HG	SER A	56	13.819	6.833	6.357	1.00	0.00
ATOM 842	N	ILE A	57	9.787	7.557	4.273	1.00	0.00
ATOM 843	CA	ILE A	57	9.055	8.691	3.723	1.00	0.00
ATOM 844	C	ILE A	57	7.783	8.962	4.523	1.00	0.00
ATOM 845	O	ILE A	57	6.711	9.173	3.954	1.00	0.00
ATOM 846	CB	ILE A	57	8.683	8.458	2.246	1.00	0.00
ATOM 847	CG1	ILE A	57	7.889	7.159	2.094	1.00	0.00
ATOM 848	CG2	ILE A	57	9.936	8.423	1.383	1.00	0.00
ATOM 849	CD1	ILE A	57	7.316	6.960	0.707	1.00	0.00
ATOM 850	H	ILE A	57	9.560	6.652	3.974	1.00	0.00
ATOM 851	HA	ILE A	57	9.694	9.560	3.779	1.00	0.00
ATOM 852	HB	ILE A	57	8.073	9.286	1.916	1.00	0.00
ATOM 853	1HG1	ILE A	57	8.535	6.322	2.308	1.00	0.00
ATOM 854	2HG1	ILE A	57	7.068	7.163	2.796	1.00	0.00
ATOM 855	1HG2	ILE A	57	9.667	8.177	0.367	1.00	0.00
ATOM 856	2HG2	ILE A	57	10.616	7.677	1.766	1.00	0.00
ATOM 857	3HG2	ILE A	57	10.414	9.391	1.404	1.00	0.00
ATOM 858	1HD1	ILE A	57	7.010	7.913	0.304	1.00	0.00
ATOM 859	2HD1	ILE A	57	6.462	6.301	0.761	1.00	0.00
ATOM 860	3HD1	ILE A	57	8.069	6.524	0.066	1.00	0.00
ATOM 861	N	LYS A	58	7.910	8.957	5.846	1.00	0.00
ATOM 862	CA	LYS A	58	6.773	9.204	6.724	1.00	0.00
ATOM 863	C	LYS A	58	6.657	10.688	7.060	1.00	0.00
ATOM 864	O	LYS A	58	6.540	11.067	8.225	1.00	0.00

ATOM 865	CB	LYS A	58	6.907	8.384	8.010	1.00	0.00
ATOM 866	CG	LYS A	58	8.111	8.768	8.856	1.00	0.00
ATOM 867	CD	LYS A	58	8.592	7.599	9.702	1.00	0.00
ATOM 868	CE	LYS A	58	10.040	7.778	10.126	1.00	0.00
ATOM 869	NZ	LYS A	58	10.979	7.608	8.982	1.00	0.00
ATOM 870	H	LYS A	58	8.790	8.784	6.240	1.00	0.00
ATOM 871	HA	LYS A	58	5.879	8.895	6.203	1.00	0.00
ATOM 872	1HB	LYS A	58	6.017	8.523	8.606	1.00	0.00
ATOM 873	2HB	LYS A	58	6.996	7.340	7.749	1.00	0.00
ATOM 874	1HG	LYS A	58	8.913	9.079	8.203	1.00	0.00
ATOM 875	2HG	LYS A	58	7.835	9.584	9.507	1.00	0.00
ATOM 876	1HD	LYS A	58	7.974	7.530	10.586	1.00	0.00
ATOM 877	2HD	LYS A	58	8.502	6.690	9.126	1.00	0.00
ATOM 878	1HE	LYS A	58	10.163	8.768	10.536	1.00	0.00
ATOM 879	2HE	LYS A	58	10.273	7.043	10.883	1.00	0.00
ATOM 880	1HZ	LYS A	58	11.829	7.095	9.292	1.00	0.00
ATOM 881	2HZ	LYS A	58	11.262	8.537	8.612	1.00	0.00
ATOM 882	3HZ	LYS A	58	10.520	7.069	8.221	1.00	0.00
ATOM 883	N	SER A	59	6.690	11.525	6.028	1.00	0.00
ATOM 884	CA	SER A	59	6.588	12.969	6.210	1.00	0.00
ATOM 885	C	SER A	59	5.752	13.600	5.101	1.00	0.00
ATOM 886	O	SER A	59	4.862	14.409	5.365	1.00	0.00
ATOM 887	CB	SER A	59	7.982	13.600	6.236	1.00	0.00
ATOM 888	OG	SER A	59	8.476	13.691	7.561	1.00	0.00
ATOM 889	H	SER A	59	6.784	11.165	5.122	1.00	0.00
ATOM 890	HA	SER A	59	6.103	13.150	7.158	1.00	0.00
ATOM 891	1HB	SER A	59	8.660	12.994	5.653	1.00	0.00



ATOM 892	2HB	SER A	59	7.932	14.593	5.814	1.00	0.00
ATOM 893	HG	SER A	59	7.929	14.296	8.067	1.00	0.00
ATOM 894	N	TYR A	60	6.045	13.227	3.860	1.00	0.00
ATOM 895	CA	TYR A	60	5.321	13.758	2.711	1.00	0.00
ATOM 896	C	TYR A	60	4.111	12.890	2.380	1.00	0.00
ATOM 897	O	TYR A	60	3.061	13.396	1.986	1.00	0.00
ATOM 898	CB	TYR A	60	6.247	13.848	1.496	1.00	0.00
ATOM 899	CG	TYR A	60	7.389	14.822	1.676	1.00	0.00
ATOM 900	CD1	TYR A	60	8.700	14.440	1.421	1.00	0.00
ATOM 901	CD2	TYR A	60	7.157	16.124	2.103	1.00	0.00
ATOM 902	CE1	TYR A	60	9.747	15.327	1.585	1.00	0.00
ATOM 903	CE2	TYR A	60	8.198	17.017	2.269	1.00	0.00
ATOM 904	CZ	TYR A	60	9.490	16.614	2.009	1.00	0.00
ATOM 905	OH	TYR A	60	10.530	17.501	2.173	1.00	0.00
ATOM 906	H	TYR A	60	6.766	12.579	3.713	1.00	0.00
ATOM 907	HA	TYR A	60	4.978	14.750	2.965	1.00	0.00
ATOM 908	1HB	TYR A	60	6.670	12.874	1.301	1.00	0.00
ATOM 909	2HB	TYR A	60	5.672	14.164	0.637	1.00	0.00
ATOM 910	HD1	TYR A	60	8.898	13.431	1.089	1.00	0.00
ATOM 911	HD2	TYR A	60	6.143	16.436	2.305	1.00	0.00
ATOM 912	HE1	TYR A	60	10.759	15.012	1.381	1.00	0.00
ATOM 913	HE2	TYR A	60	7.997	18.025	2.600	1.00	0.00
ATOM 914	HH	TYR A	60	10.527	17.835	3.073	1.00	0.00
ATOM 915	N	PHE A	61	4.266	11.580	2.544	1.00	0.00
ATOM 916	CA	PHE A	61	3.183	10.642	2.263	1.00	0.00
ATOM 917	C	PHE A	61	1.965	10.943	3.130	1.00	0.00
ATOM 918	O	PHE A	61	2.017	10.825	4.354	1.00	0.00

ATOM 919	CB	PHE A	61	3.651	9.206	2.500	1.00	0.00
ATOM 920	CG	PHE A	61	2.945	8.195	1.641	1.00	0.00
ATOM 921	CD1	PHE A	61	1.562	8.117	1.635	1.00	0.00
ATOM 922	CD2	PHE A	61	3.665	7.322	0.841	1.00	0.00
ATOM 923	CE1	PHE A	61	0.909	7.189	0.845	1.00	0.00
ATOM 924	CE2	PHE A	61	3.018	6.392	0.050	1.00	0.00
ATOM 925	CZ	PHE A	61	1.638	6.325	0.052	1.00	0.00
ATOM 926	H	PHE A	61	5.126	11.235	2.861	1.00	0.00
ATOM 927	HA	PHE A	61	2.908	10.755	1.225	1.00	0.00
ATOM 928	1HB	PHE A	61	4.708	9.139	2.289	1.00	0.00
ATOM 929	2HB	PHE A	61	3.478	8.943	3.534	1.00	0.00
ATOM 930	HD1	PHE A	61	0.990	8.793	2.255	1.00	0.00
ATOM 931	HD2	PHE A	61	4.743	7.374	0.838	1.00	0.00
ATOM 932	HE1	PHE A	61	-0.170	7.138	0.850	1.00	0.00
ATOM 933	HE2	PHE A	61	3.591	5.719	-0.570	1.00	0.00
ATOM 934	HZ	PHE A	61	1.131	5.600	-0.566	1.00	0.00
ATOM 935	N	SER A	62	0.869	11.333	2.487	1.00	0.00
ATOM 936	CA	SER A	62	-0.363	11.652	3.199	1.00	0.00
ATOM 937	C	SER A	62	-1.151	10.385	3.519	1.00	0.00
ATOM 938	O	SER A	62	-1.393	10.071	4.684	1.00	0.00
ATOM 939	CB	SER A	62	-1.224	12.607	2.370	1.00	0.00
ATOM 940	OG	SER A	62	-1.761	13.641	3.175	1.00	0.00
ATOM 941	H	SER A	62	0.889	11.409	1.510	1.00	0.00
ATOM 942	HA	SER A	62	-0.094	12.137	4.126	1.00	0.00
ATOM 943	1HB	SER A	62	-0.618	13.052	1.594	1.00	0.00
ATOM 944	2HB	SER A	62	-2.038	12.057	1.919	1.00	0.00
ATOM 945	HG	SER A	62	-1.333	14.472	2.958	1.00	0.00

ATOM 946	N	ASP	A	63	-1.549	9.663	2.477	1.00	0.00
ATOM 947	CA	ASP	A	63	-2.310	8.431	2.647	1.00	0.00
ATOM 948	C	ASP	A	63	-2.540	7.743	1.306	1.00	0.00
ATOM 949	O	ASP	A	63	-2.054	8.200	0.271	1.00	0.00
ATOM 950	CB	ASP	A	63	-3.653	8.726	3.318	1.00	0.00
ATOM 951	CG	ASP	A	63	-4.468	9.750	2.553	1.00	0.00
ATOM 952	OD1	ASP	A	63	-4.150	10.954	2.649	1.00	0.00
ATOM 953	OD2	ASP	A	63	-5.424	9.348	1.857	1.00	0.00
ATOM 954	H	ASP	A	63	-1.326	9.966	1.572	1.00	0.00
ATOM 955	HA	ASP	A	63	-1.738	7.772	3.284	1.00	0.00
ATOM 956	1HB	ASP	A	63	-4.226	7.813	3.381	1.00	0.00
ATOM 957	2HB	ASP	A	63	-3.475	9.104	4.314	1.00	0.00
ATOM 958	N	CYS	A	64	-3.283	6.642	1.332	1.00	0.00
ATOM 959	CA	CYS	A	64	-3.577	5.891	0.116	1.00	0.00
ATOM 960	C	CYS	A	64	-5.062	5.969	-0.224	1.00	0.00
ATOM 961	O	CYS	A	64	-5.906	6.094	0.662	1.00	0.00
ATOM 962	CB	CYS	A	64	-3.157	4.429	0.280	1.00	0.00
ATOM 963	SG	CYS	A	64	-2.544	3.664	-1.239	1.00	0.00
ATOM 964	H	CYS	A	64	-3.642	6.327	2.187	1.00	0.00
ATOM 965	HA	CYS	A	64	-3.011	6.331	-0.691	1.00	0.00
ATOM 966	1HB	CYS	A	64	-2.369	4.369	1.016	1.00	0.00
ATOM 967	2HB	CYS	A	64	-4.005	3.854	0.620	1.00	0.00
ATOM 968	HG	CYS	A	64	-3.050	2.863	-1.392	1.00	0.00
ATOM 969	N	GLN	A	65	-5.372	5.895	-1.515	1.00	0.00
ATOM 970	CA	GLN	A	65	-6.755	5.957	-1.973	1.00	0.00
ATOM 971	C	GLN	A	65	-7.129	4.696	-2.745	1.00	0.00
ATOM 972	O	GLN	A	65	-6.904	4.607	-3.951	1.00	0.00

ATOM 973	CB	GLN A	65	-6.968	7.190	-2.853	1.00	0.00
ATOM 974	CG	GLN A	65	-8.379	7.748	-2.787	1.00	0.00
ATOM 975	CD	GLN A	65	-8.732	8.588	-3.998	1.00	0.00
ATOM 976	OE1	GLN A	65	-9.119	9.749	-3.873	1.00	0.00
ATOM 977	NE2	GLN A	65	-8.600	8.001	-5.183	1.00	0.00
ATOM 978	H	GLN A	65	-4.654	5.796	-2.174	1.00	0.00
ATOM 979	HA	GLN A	65	-7.390	6.034	-1.102	1.00	0.00
ATOM 980	1HB	GLN A	65	-6.282	7.964	-2.540	1.00	0.00
ATOM 981	2HB	GLN A	65	-6.755	6.927	-3.878	1.00	0.00
ATOM 982	1HG	GLN A	65	-9.076	6.926	-2.723	1.00	0.00
ATOM 983	2HG	GLN A	65	-8.468	8.364	-1.902	1.00	0.00
ATOM 984	1HE2	GLN A	65	-8.288	7.074	-5.207	1.00	0.00
ATOM 985	2HE2	GLN A	65	-8.821	8.521	-5.984	1.00	0.00
ATOM 986	N	VAL A	66	-7.702	3.725	-2.041	1.00	0.00
ATOM 987	CA	VAL A	66	-8.107	2.470	-2.662	1.00	0.00
ATOM 988	C	VAL A	66	-9.280	2.684	-3.615	1.00	0.00
ATOM 989	O	VAL A	66	-10.408	2.925	-3.186	1.00	0.00
ATOM 990	CB	VAL A	66	-8.497	1.419	-1.602	1.00	0.00
ATOM 991	CG1	VAL A	66	-9.672	1.905	-0.768	1.00	0.00
ATOM 992	CG2	VAL A	66	-8.814	0.083	-2.260	1.00	0.00
ATOM 993	H	VAL A	66	-7.855	3.856	-1.082	1.00	0.00
ATOM 994	HA	VAL A	66	-7.266	2.090	-3.223	1.00	0.00
ATOM 995	HB	VAL A	66	-7.654	1.278	-0.942	1.00	0.00
ATOM 996	1HG1	VAL A	66	-9.513	1.642	0.267	1.00	0.00
ATOM 997	2HG1	VAL A	66	-10.581	1.441	-1.122	1.00	0.00
ATOM 998	3HG1	VAL A	66	-9.758	2.978	-0.857	1.00	0.00
ATOM 999	1HG2	VAL A	66	-7.968	-0.581	-2.151	1.00	0.00

ATOM 1000	2HG2	VAL	A	66	-9.018	0.237	-3.309	1.00	0.00
ATOM 1001	3HG2	VAL	A	66	-9.679	-0.357	-1.786	1.00	0.00
ATOM 1002	N	LEU	A	67	-9.003	2.598	-4.912	1.00	0.00
ATOM 1003	CA	LEU	A	67	-10.034	2.784	-5.927	1.00	0.00
ATOM 1004	C	LEU	A	67	-11.041	1.639	-5.894	1.00	0.00
ATOM 1005	O	LEU	A	67	-12.222	1.847	-5.619	1.00	0.00
ATOM 1006	CB	LEU	A	67	-9.399	2.880	-7.317	1.00	0.00
ATOM 1007	CG	LEU	A	67	-8.228	3.858	-7.426	1.00	0.00
ATOM 1008	CD1	LEU	A	67	-7.680	3.877	-8.844	1.00	0.00
ATOM 1009	CD2	LEU	A	67	-8.658	5.252	-6.999	1.00	0.00
ATOM 1010	H	LEU	A	67	-8.085	2.405	-5.193	1.00	0.00
ATOM 1011	HA	LEU	A	67	-10.548	3.708	-5.712	1.00	0.00
ATOM 1012	1HB	LEU	A	67	-9.050	1.898	-7.598	1.00	0.00
ATOM 1013	2HB	LEU	A	67	-10.161	3.188	-8.016	1.00	0.00
ATOM 1014	HG	LEU	A	67	-7.435	3.534	-6.767	1.00	0.00
ATOM 1015	1HD1	LEU	A	67	-6.989	4.700	-8.953	1.00	0.00
ATOM 1016	2HD1	LEU	A	67	-8.495	3.998	-9.543	1.00	0.00
ATOM 1017	3HD1	LEU	A	67	-7.169	2.947	-9.046	1.00	0.00
ATOM 1018	1HD2	LEU	A	67	-7.783	5.856	-6.805	1.00	0.00
ATOM 1019	2HD2	LEU	A	67	-9.255	5.187	-6.102	1.00	0.00
ATOM 1020	3HD2	LEU	A	67	-9.241	5.707	-7.787	1.00	0.00
ATOM 1021	N	ALA	A	68	-10.566	0.432	-6.177	1.00	0.00
ATOM 1022	CA	ALA	A	68	-11.425	-0.745	-6.180	1.00	0.00
ATOM 1023	C	ALA	A	68	-10.603	-2.026	-6.289	1.00	0.00
ATOM 1024	O	ALA	A	68	-9.376	-1.997	-6.198	1.00	0.00
ATOM 1025	CB	ALA	A	68	-12.430	-0.663	-7.319	1.00	0.00
ATOM 1026	H	ALA	A	68	-9.614	0.328	-6.389	1.00	0.00

ATOM	1027	HA	ALA	A	68	-11.973	-0.760	-5.248	1.00	0.00
ATOM	1028	1HB	ALA	A	68	-12.748	0.362	-7.444	1.00	0.00
ATOM	1029	2HB	ALA	A	68	-13.286	-1.279	-7.089	1.00	0.00
ATOM	1030	3HB	ALA	A	68	-11.970	-1.011	-8.231	1.00	0.00
ATOM	1031	N	PHE	A	69	-11.289	-3.147	-6.485	1.00	0.00
ATOM	1032	CA	PHE	A	69	-10.623	-4.439	-6.607	1.00	0.00
ATOM	1033	C	PHE	A	69	-10.796	-5.009	-8.011	1.00	0.00
ATOM	1034	O	PHE	A	69	-11.916	-5.256	-8.458	1.00	0.00
ATOM	1035	CB	PHE	A	69	-11.176	-5.420	-5.572	1.00	0.00
ATOM	1036	CG	PHE	A	69	-10.844	-5.048	-4.156	1.00	0.00
ATOM	1037	CD1	PHE	A	69	-11.850	-4.846	-3.224	1.00	0.00
ATOM	1038	CD2	PHE	A	69	-9.526	-4.897	-3.756	1.00	0.00
ATOM	1039	CE1	PHE	A	69	-11.547	-4.502	-1.921	1.00	0.00
ATOM	1040	CE2	PHE	A	69	-9.217	-4.553	-2.454	1.00	0.00
ATOM	1041	CZ	PHE	A	69	-10.230	-4.355	-1.535	1.00	0.00
ATOM	1042	H	PHE	A	69	-12.266	-3.106	-6.548	1.00	0.00
ATOM	1043	HA	PHE	A	69	-9.570	-4.288	-6.419	1.00	0.00
ATOM	1044	1HB	PHE	A	69	-12.251	-5.459	-5.662	1.00	0.00
ATOM	1045	2HB	PHE	A	69	-10.768	-6.402	-5.764	1.00	0.00
ATOM	1046	HD1	PHE	A	69	-12.882	-4.961	-3.525	1.00	0.00
ATOM	1047	HD2	PHE	A	69	-8.734	-5.051	-4.474	1.00	0.00
ATOM	1048	HE1	PHE	A	69	-12.341	-4.348	-1.204	1.00	0.00
ATOM	1049	HE2	PHE	A	69	-8.186	-4.438	-2.155	1.00	0.00
ATOM	1050	HZ	PHE	A	69	-9.991	-4.087	-0.517	1.00	0.00
ATOM	1051	N	ARG	A	70	-9.679	-5.217	-8.700	1.00	0.00
ATOM	1052	CA	ARG	A	70	-9.707	-5.758	-10.054	1.00	0.00
ATOM	1053	C	ARG	A	70	-9.928	-7.268	-10.032	1.00	0.00

ATOM	1054	O	ARG	A	70	-9.285	-7.989	-9.270	1.00	0.00
ATOM	1055	CB	ARG	A	70	-8.401	-5.434	-10.782	1.00	0.00
ATOM	1056	CG	ARG	A	70	-7.970	-3.982	-10.640	1.00	0.00
ATOM	1057	CD	ARG	A	70	-8.716	-3.082	-11.611	1.00	0.00
ATOM	1058	NE	ARG	A	70	-8.529	-3.498	-12.998	1.00	0.00
ATOM	1059	CZ	ARG	A	70	-9.325	-3.127	-13.999	1.00	0.00
ATOM	1060	NH1	ARG	A	70	-10.364	-2.331	-13.771	1.00	0.00
ATOM	1061	NH2	ARG	A	70	-9.082	-3.551	-15.232	1.00	0.00
ATOM	1062	H	ARG	A	70	-8.816	-5.001	-8.290	1.00	0.00
ATOM	1063	HA	ARG	A	70	-10.527	-5.294	-10.580	1.00	0.00
ATOM	1064	1HB	ARG	A	70	-7.616	-6.060	-10.386	1.00	0.00
ATOM	1065	2HB	ARG	A	70	-8.524	-5.648	-11.833	1.00	0.00
ATOM	1066	1HG	ARG	A	70	-8.173	-3.654	-9.631	1.00	0.00
ATOM	1067	2HG	ARG	A	70	-6.911	-3.911	-10.838	1.00	0.00
ATOM	1068	1HD	ARG	A	70	-9.770	-3.115	-11.376	1.00	0.00
ATOM	1069	2HD	ARG	A	70	-8.354	-2.072	-11.495	1.00	0.00
ATOM	1070	HE	ARG	A	70	-7.770	-4.085	-13.196	1.00	0.00
ATOM	1071	1HH1	ARG	A	70	-10.552	-2.007	-12.844	1.00	0.00
ATOM	1072	2HH1	ARG	A	70	-10.957	-2.056	-14.526	1.00	0.00
ATOM	1073	1HH2	ARG	A	70	-8.301	-4.149	-15.409	1.00	0.00
ATOM	1074	2HH2	ARG	A	70	-9.681	-3.273	-15.983	1.00	0.00
ATOM	1075	N	SER	A	71	-10.841	-7.739	-10.876	1.00	0.00
ATOM	1076	CA	SER	A	71	-11.147	-9.163	-10.954	1.00	0.00
ATOM	1077	C	SER	A	71	-10.050	-9.914	-11.703	1.00	0.00
ATOM	1078	O	SER	A	71	-9.250	-9.312	-12.417	1.00	0.00
ATOM	1079	CB	SER	A	71	-12.494	-9.380	-11.647	1.00	0.00
ATOM	1080	OG	SER	A	71	-12.801	-10.760	-11.745	1.00	0.00

ATOM 1081	H	SER A	71	-11.320	-7.114	-11.460	1.00	0.00
ATOM 1082	HA	SER A	71	-11.205	-9.545	-9.946	1.00	0.00
ATOM 1083	1HB	SER A	71	-13.271	-8.891	-11.080	1.00	0.00
ATOM 1084	2HB	SER A	71	-12.455	-8.960	-12.642	1.00	0.00
ATOM 1085	HG	SER A	71	-13.241	-11.048	-10.942	1.00	0.00
ATOM 1086	N	VAL A	72	-10.020	-11.231	-11.533	1.00	0.00
ATOM 1087	CA	VAL A	72	-9.020	-12.062	-12.192	1.00	0.00
ATOM 1088	C	VAL A	72	-9.590	-13.431	-12.551	1.00	0.00
ATOM 1089	O	VAL A	72	-10.534	-13.907	-11.920	1.00	0.00
ATOM 1090	CB	VAL A	72	-7.775	-12.253	-11.305	1.00	0.00
ATOM 1091	CG1	VAL A	72	-6.990	-10.955	-11.200	1.00	0.00
ATOM 1092	CG2	VAL A	72	-8.175	-12.761	-9.926	1.00	0.00
ATOM 1093	H	VAL A	72	-10.684	-11.654	-10.950	1.00	0.00
ATOM 1094	HA	VAL A	72	-8.715	-11.561	-13.100	1.00	0.00
ATOM 1095	HB	VAL A	72	-7.140	-12.995	-11.766	1.00	0.00
ATOM 1096	1HG1	VAL A	72	-7.001	-10.449	-12.153	1.00	0.00
ATOM 1097	2HG1	VAL A	72	-5.971	-11.172	-10.918	1.00	0.00
ATOM 1098	3HG1	VAL A	72	-7.443	-10.320	-10.451	1.00	0.00
ATOM 1099	1HG2	VAL A	72	-7.931	-13.809	-9.844	1.00	0.00
ATOM 1100	2HG2	VAL A	72	-9.237	-12.625	-9.785	1.00	0.00
ATOM 1101	3HG2	VAL A	72	-7.639	-12.207	-9.168	1.00	0.00
ATOM 1102	N	SER A	73	-9.008	-14.061	-13.567	1.00	0.00
ATOM 1103	CA	SER A	73	-9.456	-15.375	-14.010	1.00	0.00
ATOM 1104	C	SER A	73	-8.482	-16.461	-13.564	1.00	0.00
ATOM 1105	O	SER A	73	-8.889	-17.493	-13.031	1.00	0.00
ATOM 1106	CB	SER A	73	-9.605	-15.402	-15.532	1.00	0.00
ATOM 1107	OG	SER A	73	-10.491	-14.389	-15.976	1.00	0.00



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ATOM 1108	H	SER A	73	-8.259	-13.630	-14.030	1.00	0.00
ATOM 1109	HA	SER A	73	-10.419	-15.566	-13.560	1.00	0.00
ATOM 1110	1HB	SER A	73	-8.639	-15.241	-15.988	1.00	0.00
ATOM 1111	2HB	SER A	73	-9.992	-16.362	-15.838	1.00	0.00
ATOM 1112	N	ASN A	74	-7.193	-16.220	-13.783	1.00	0.00
ATOM 1113	CA	ASN A	74	-6.160	-17.177	-13.402	1.00	0.00
ATOM 1114	C	ASN A	74	-6.202	-17.451	-11.902	1.00	0.00
ATOM 1115	O	ASN A	74	-6.232	-16.523	-11.093	1.00	0.00
ATOM 1116	CB	ASN A	74	-4.779	-16.651	-13.800	1.00	0.00
ATOM 1117	CG	ASN A	74	-3.908	-17.724	-14.423	1.00	0.00
ATOM 1118	OD1	ASN A	74	-3.299	-17.516	-15.472	1.00	0.00
ATOM 1119	ND2	ASN A	74	-3.844	-18.884	-13.777	1.00	0.00
ATOM 1120	H	ASN A	74	-6.930	-15.378	-14.210	1.00	0.00
ATOM 1121	HA	ASN A	74	-6.351	-18.099	-13.930	1.00	0.00
ATOM 1122	1HB	ASN A	74	-4.897	-15.851	-14.515	1.00	0.00
ATOM 1123	2HB	ASN A	74	-4.278	-16.271	-12.921	1.00	0.00
ATOM 1124	1HD2	ASN A	74	-4.356	-18.980	-12.947	1.00	0.00
ATOM 1125	2HD2	ASN A	74	-3.288	-19.596	-14.158	1.00	0.00
ATOM 1126	N	ASN A	75	-6.207	-18.732	-11.537	1.00	0.00
ATOM 1127	CA	ASN A	75	-6.247	-19.144	-10.132	1.00	0.00
ATOM 1128	C	ASN A	75	-7.665	-19.058	-9.569	1.00	0.00
ATOM 1129	O	ASN A	75	-8.161	-20.012	-8.970	1.00	0.00
ATOM 1130	CB	ASN A	75	-5.295	-18.291	-9.286	1.00	0.00
ATOM 1131	CG	ASN A	75	-4.784	-19.032	-8.066	1.00	0.00
ATOM 1132	OD1	ASN A	75	-5.559	-19.621	-7.313	1.00	0.00
ATOM 1133	ND2	ASN A	75	-3.472	-19.004	-7.865	1.00	0.00
ATOM 1134	H	ASN A	75	-6.184	-19.423	-12.232	1.00	0.00

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ATOM	1135	HA	ASN	A	75	-5.923	-20.173	-10.086	1.00	0.00
ATOM	1136	1HB	ASN	A	75	-4.448	-18.001	-9.890	1.00	0.00
ATOM	1137	2HB	ASN	A	75	-5.816	-17.403	-8.955	1.00	0.00
ATOM	1138	1HD2	ASN	A	75	-2.915	-18.515	-8.505	1.00	0.00
ATOM	1139	2HD2	ASN	A	75	-3.114	-19.476	-7.083	1.00	0.00
ATOM	1140	N	ASN	A	76	-8.313	-17.910	-9.762	1.00	0.00
ATOM	1141	CA	ASN	A	76	-9.673	-17.701	-9.272	1.00	0.00
ATOM	1142	C	ASN	A	76	-9.678	-17.500	-7.759	1.00	0.00
ATOM	1143	O	ASN	A	76	-10.630	-17.876	-7.075	1.00	0.00
ATOM	1144	CB	ASN	A	76	-10.575	-18.882	-9.651	1.00	0.00
ATOM	1145	CG	ASN	A	76	-11.741	-18.461	-10.525	1.00	0.00
ATOM	1146	OD1	ASN	A	76	-12.051	-19.115	-11.522	1.00	0.00
ATOM	1147	ND2	ASN	A	76	-12.393	-17.365	-10.156	1.00	0.00
ATOM	1148	H	ASN	A	76	-7.866	-17.185	-10.243	1.00	0.00
ATOM	1149	HA	ASN	A	76	-10.055	-16.805	-9.738	1.00	0.00
ATOM	1150	1HB	ASN	A	76	-9.993	-19.614	-10.189	1.00	0.00
ATOM	1151	2HB	ASN	A	76	-10.968	-19.332	-8.751	1.00	0.00
ATOM	1152	1HD2	ASN	A	76	-12.090	-16.895	-9.352	1.00	0.00
ATOM	1153	2HD2	ASN	A	76	-13.150	-17.070	-10.704	1.00	0.00
ATOM	1154	N	ASN	A	77	-8.607	-16.902	-7.247	1.00	0.00
ATOM	1155	CA	ASN	A	77	-8.484	-16.646	-5.817	1.00	0.00
ATOM	1156	C	ASN	A	77	-7.576	-15.448	-5.554	1.00	0.00
ATOM	1157	O	ASN	A	77	-6.962	-15.344	-4.494	1.00	0.00
ATOM	1158	CB	ASN	A	77	-7.937	-17.882	-5.101	1.00	0.00
ATOM	1159	CG	ASN	A	77	-8.568	-18.088	-3.738	1.00	0.00
ATOM	1160	OD1	ASN	A	77	-7.926	-17.888	-2.707	1.00	0.00
ATOM	1161	ND2	ASN	A	77	-9.834	-18.492	-3.727	1.00	0.00

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ATOM	1162	H	ASN	A	77	-7.884	-16.623	-7.846	1.00	0.00
ATOM	1163	HA	ASN	A	77	-9.470	-16.426	-5.433	1.00	0.00
ATOM	1164	1HB	ASN	A	77	-8.135	-18.756	-5.703	1.00	0.00
ATOM	1165	2HB	ASN	A	77	-6.871	-17.773	-4.971	1.00	0.00
ATOM	1166	1HD2	ASN	A	77	-10.282	-18.633	-4.587	1.00	0.00
ATOM	1167	2HD2	ASN	A	77	-10.267	-18.633	-2.859	1.00	0.00
ATOM	1168	N	HIS	A	78	-7.497	-14.545	-6.528	1.00	0.00
ATOM	1169	CA	HIS	A	78	-6.665	-13.353	-6.402	1.00	0.00
ATOM	1170	C	HIS	A	78	-7.518	-12.089	-6.441	1.00	0.00
ATOM	1171	O	HIS	A	78	-8.741	-12.158	-6.562	1.00	0.00
ATOM	1172	CB	HIS	A	78	-5.623	-13.313	-7.521	1.00	0.00
ATOM	1173	CG	HIS	A	78	-4.686	-14.482	-7.511	1.00	0.00
ATOM	1174	ND1	HIS	A	78	-3.765	-14.716	-8.510	1.00	0.00
ATOM	1175	CD2	HIS	A	78	-4.531	-15.487	-6.617	1.00	0.00
ATOM	1176	CE1	HIS	A	78	-3.084	-15.812	-8.231	1.00	0.00
ATOM	1177	NE2	HIS	A	78	-3.529	-16.299	-7.088	1.00	0.00
ATOM	1178	H	HIS	A	78	-8.012	-14.682	-7.351	1.00	0.00
ATOM	1179	HA	HIS	A	78	-6.157	-13.402	-5.451	1.00	0.00
ATOM	1180	1HB	HIS	A	78	-6.128	-13.302	-8.475	1.00	0.00
ATOM	1181	2HB	HIS	A	78	-5.033	-12.413	-7.421	1.00	0.00
ATOM	1182	HD1	HIS	A	78	-3.630	-14.160	-9.307	1.00	0.00
ATOM	1183	HD2	HIS	A	78	-5.091	-15.624	-5.703	1.00	0.00
ATOM	1184	HE1	HIS	A	78	-2.296	-16.238	-8.835	1.00	0.00
ATOM	1185	HE2	HIS	A	78	-3.122	-17.043	-6.596	1.00	0.00
ATOM	1186	N	THR	A	79	-6.865	-10.936	-6.336	1.00	0.00
ATOM	1187	CA	THR	A	79	-7.565	-9.658	-6.358	1.00	0.00
ATOM	1188	C	THR	A	79	-6.596	-8.509	-6.620	1.00	0.00

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ATOM	1189	O	THR	A	79	-5.650	-8.297	-5.862	1.00	0.00
ATOM	1190	CB	THR	A	79	-8.295	-9.430	-5.034	1.00	0.00
ATOM	1191	OG1	THR	A	79	-9.027	-10.584	-4.659	1.00	0.00
ATOM	1192	CG2	THR	A	79	-9.262	-8.267	-5.075	1.00	0.00
ATOM	1193	H	THR	A	79	-5.890	-10.946	-6.240	1.00	0.00
ATOM	1194	HA	THR	A	79	-8.291	-9.691	-7.157	1.00	0.00
ATOM	1195	HB	THR	A	79	-7.566	-9.227	-4.262	1.00	0.00
ATOM	1196	HG1	THR	A	79	-8.431	-11.230	-4.273	1.00	0.00
ATOM	1197	1HG2	THR	A	79	-8.946	-7.511	-4.371	1.00	0.00
ATOM	1198	2HG2	THR	A	79	-10.252	-8.613	-4.812	1.00	0.00
ATOM	1199	3HG2	THR	A	79	-9.280	-7.849	-6.069	1.00	0.00
ATOM	1200	N	GLY	A	80	-6.842	-7.769	-7.697	1.00	0.00
ATOM	1201	CA	GLY	A	80	-5.984	-6.649	-8.038	1.00	0.00
ATOM	1202	C	GLY	A	80	-6.273	-5.421	-7.197	1.00	0.00
ATOM	1203	O	GLY	A	80	-7.308	-4.776	-7.364	1.00	0.00
ATOM	1204	H	GLY	A	80	-7.611	-7.984	-8.263	1.00	0.00
ATOM	1205	1HA	GLY	A	80	-4.954	-6.940	-7.889	1.00	0.00
ATOM	1206	2HA	GLY	A	80	-6.130	-6.401	-9.079	1.00	0.00
ATOM	1207	N	VAL	A	81	-5.360	-5.100	-6.287	1.00	0.00
ATOM	1208	CA	VAL	A	81	-5.523	-3.944	-5.414	1.00	0.00
ATOM	1209	C	VAL	A	81	-5.193	-2.648	-6.147	1.00	0.00
ATOM	1210	O	VAL	A	81	-4.037	-2.226	-6.193	1.00	0.00
ATOM	1211	CB	VAL	A	81	-4.631	-4.053	-4.164	1.00	0.00
ATOM	1212	CG1	VAL	A	81	-4.914	-2.911	-3.199	1.00	0.00
ATOM	1213	CG2	VAL	A	81	-4.832	-5.398	-3.482	1.00	0.00
ATOM	1214	H	VAL	A	81	-4.556	-5.655	-6.200	1.00	0.00
ATOM	1215	HA	VAL	A	81	-6.554	-3.911	-5.094	1.00	0.00

ATOM	1216	HB	VAL	A	81	-3.599	-3.984	-4.476	1.00	0.00
ATOM	1217	1HG1	VAL	A	81	-4.562	-1.983	-3.626	1.00	0.00
ATOM	1218	2HG1	VAL	A	81	-4.406	-3.094	-2.264	1.00	0.00
ATOM	1219	3HG1	VAL	A	81	-5.978	-2.844	-3.023	1.00	0.00
ATOM	1220	1HG2	VAL	A	81	-4.619	-6.193	-4.183	1.00	0.00
ATOM	1221	2HG2	VAL	A	81	-5.855	-5.481	-3.144	1.00	0.00
ATOM	1222	3HG2	VAL	A	81	-4.165	-5.477	-2.636	1.00	0.00
ATOM	1223	N	ASP	A	82	-6.215	-2.018	-6.716	1.00	0.00
ATOM	1224	CA	ASP	A	82	-6.033	-0.766	-7.440	1.00	0.00
ATOM	1225	C	ASP	A	82	-6.132	0.424	-6.491	1.00	0.00
ATOM	1226	O	ASP	A	82	-7.205	1.001	-6.311	1.00	0.00
ATOM	1227	CB	ASP	A	82	-7.076	-0.637	-8.552	1.00	0.00
ATOM	1228	CG	ASP	A	82	-6.492	-0.069	-9.830	1.00	0.00
ATOM	1229	OD1	ASP	A	82	-5.999	1.079	-9.798	1.00	0.00
ATOM	1230	OD2	ASP	A	82	-6.525	-0.770	-10.862	1.00	0.00
ATOM	1231	H	ASP	A	82	-7.114	-2.401	-6.642	1.00	0.00
ATOM	1232	HA	ASP	A	82	-5.047	-0.778	-7.881	1.00	0.00
ATOM	1233	1HB	ASP	A	82	-7.484	-1.614	-8.768	1.00	0.00
ATOM	1234	2HB	ASP	A	82	-7.870	0.015	-8.219	1.00	0.00
ATOM	1235	N	SER	A	83	-5.006	0.782	-5.881	1.00	0.00
ATOM	1236	CA	SER	A	83	-4.966	1.900	-4.944	1.00	0.00
ATOM	1237	C	SER	A	83	-4.217	3.088	-5.539	1.00	0.00
ATOM	1238	O	SER	A	83	-3.779	3.046	-6.689	1.00	0.00
ATOM	1239	CB	SER	A	83	-4.307	1.466	-3.634	1.00	0.00
ATOM	1240	OG	SER	A	83	-3.260	0.541	-3.872	1.00	0.00
ATOM	1241	H	SER	A	83	-4.184	0.282	-6.063	1.00	0.00
ATOM	1242	HA	SER	A	83	-5.984	2.197	-4.742	1.00	0.00

ATOM	1243	1HB	SER	A	83	-3.898	2.332	-3.136	1.00	0.00
ATOM	1244	2HB	SER	A	83	-5.045	1.000	-2.998	1.00	0.00
ATOM	1245	HG	SER	A	83	-2.976	0.158	-3.039	1.00	0.00
ATOM	1246	N	LEU	A	84	-4.077	4.147	-4.749	1.00	0.00
ATOM	1247	CA	LEU	A	84	-3.385	5.350	-5.196	1.00	0.00
ATOM	1248	C	LEU	A	84	-2.447	5.876	-4.114	1.00	0.00
ATOM	1249	O	LEU	A	84	-2.885	6.234	-3.021	1.00	0.00
ATOM	1250	CB	LEU	A	84	-4.400	6.431	-5.578	1.00	0.00
ATOM	1251	CG	LEU	A	84	-3.830	7.614	-6.365	1.00	0.00
ATOM	1252	CD1	LEU	A	84	-2.958	8.483	-5.471	1.00	0.00
ATOM	1253	CD2	LEU	A	84	-3.041	7.122	-7.570	1.00	0.00
ATOM	1254	H	LEU	A	84	-4.451	4.120	-3.843	1.00	0.00
ATOM	1255	HA	LEU	A	84	-2.802	5.093	-6.069	1.00	0.00
ATOM	1256	1HB	LEU	A	84	-5.176	5.972	-6.171	1.00	0.00
ATOM	1257	2HB	LEU	A	84	-4.843	6.813	-4.670	1.00	0.00
ATOM	1258	HG	LEU	A	84	-4.647	8.223	-6.726	1.00	0.00
ATOM	1259	1HD1	LEU	A	84	-3.168	8.260	-4.435	1.00	0.00
ATOM	1260	2HD1	LEU	A	84	-3.171	9.524	-5.665	1.00	0.00
ATOM	1261	3HD1	LEU	A	84	-1.917	8.283	-5.679	1.00	0.00
ATOM	1262	1HD2	LEU	A	84	-3.030	7.890	-8.330	1.00	0.00
ATOM	1263	2HD2	LEU	A	84	-3.507	6.231	-7.964	1.00	0.00
ATOM	1264	3HD2	LEU	A	84	-2.028	6.897	-7.270	1.00	0.00
ATOM	1265	N	CYS	A	85	-1.155	5.923	-4.426	1.00	0.00
ATOM	1266	CA	CYS	A	85	-0.157	6.411	-3.480	1.00	0.00
ATOM	1267	C	CYS	A	85	-0.160	7.937	-3.434	1.00	0.00
ATOM	1268	O	CYS	A	85	0.665	8.588	-4.074	1.00	0.00
ATOM	1269	CB	CYS	A	85	1.233	5.899	-3.861	1.00	0.00

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ATOM	1270	SG	CYS	A	85	1.523	4.170	-3.423	1.00	0.00
ATOM	1271	H	CYS	A	85	-0.866	5.627	-5.314	1.00	0.00
ATOM	1272	HA	CYS	A	85	-0.416	6.031	-2.503	1.00	0.00
ATOM	1273	1HB	CYS	A	85	1.364	5.993	-4.927	1.00	0.00
ATOM	1274	2HB	CYS	A	85	1.980	6.495	-3.358	1.00	0.00
ATOM	1275	HG	CYS	A	85	1.900	4.146	-2.541	1.00	0.00
ATOM	1276	N	ASN	A	86	-1.099	8.500	-2.680	1.00	0.00
ATOM	1277	CA	ASN	A	86	-1.219	9.949	-2.556	1.00	0.00
ATOM	1278	C	ASN	A	86	-0.057	10.535	-1.757	1.00	0.00
ATOM	1279	O	ASN	A	86	0.405	9.941	-0.783	1.00	0.00
ATOM	1280	CB	ASN	A	86	-2.548	10.314	-1.888	1.00	0.00
ATOM	1281	CG	ASN	A	86	-3.595	10.760	-2.888	1.00	0.00
ATOM	1282	OD1	ASN	A	86	-3.544	11.879	-3.399	1.00	0.00
ATOM	1283	ND2	ASN	A	86	-4.554	9.886	-3.172	1.00	0.00
ATOM	1284	H	ASN	A	86	-1.731	7.926	-2.197	1.00	0.00
ATOM	1285	HA	ASN	A	86	-1.202	10.367	-3.551	1.00	0.00
ATOM	1286	1HB	ASN	A	86	-2.926	9.450	-1.361	1.00	0.00
ATOM	1287	2HB	ASN	A	86	-2.383	11.116	-1.184	1.00	0.00
ATOM	1288	1HD2	ASN	A	86	-4.531	9.013	-2.725	1.00	0.00
ATOM	1289	2HD2	ASN	A	86	-5.244	10.148	-3.815	1.00	0.00
ATOM	1290	N	PHE	A	87	0.405	11.710	-2.176	1.00	0.00
ATOM	1291	CA	PHE	A	87	1.507	12.387	-1.502	1.00	0.00
ATOM	1292	C	PHE	A	87	1.163	13.849	-1.234	1.00	0.00
ATOM	1293	O	PHE	A	87	0.055	14.299	-1.528	1.00	0.00
ATOM	1294	CB	PHE	A	87	2.782	12.297	-2.342	1.00	0.00
ATOM	1295	CG	PHE	A	87	3.620	11.089	-2.036	1.00	0.00
ATOM	1296	CD1	PHE	A	87	3.177	9.819	-2.373	1.00	0.00

ATOM	1297	CD2	PHE	A	87	4.849	11.223	-1.412	1.00	0.00
ATOM	1298	CE1	PHE	A	87	3.946	8.706	-2.092	1.00	0.00
ATOM	1299	CE2	PHE	A	87	5.623	10.113	-1.129	1.00	0.00
ATOM	1300	CZ	PHE	A	87	5.170	8.853	-1.468	1.00	0.00
ATOM	1301	H	PHE	A	87	-0.009	12.134	-2.957	1.00	0.00
ATOM	1302	HA	PHE	A	87	1.674	11.890	-0.558	1.00	0.00
ATOM	1303	1HB	PHE	A	87	2.514	12.260	-3.387	1.00	0.00
ATOM	1304	2HB	PHE	A	87	3.386	13.176	-2.163	1.00	0.00
ATOM	1305	HD1	PHE	A	87	2.220	9.704	-2.860	1.00	0.00
ATOM	1306	HD2	PHE	A	87	5.203	12.207	-1.146	1.00	0.00
ATOM	1307	HE1	PHE	A	87	3.589	7.722	-2.358	1.00	0.00
ATOM	1308	HE2	PHE	A	87	6.579	10.231	-0.641	1.00	0.00
ATOM	1309	HZ	PHE	A	87	5.772	7.985	-1.247	1.00	0.00
ATOM	1310	N	SER	A	88	2.118	14.588	-0.676	1.00	0.00
ATOM	1311	CA	SER	A	88	1.910	15.999	-0.370	1.00	0.00
ATOM	1312	C	SER	A	88	2.724	16.888	-1.309	1.00	0.00
ATOM	1313	O	SER	A	88	3.776	16.482	-1.803	1.00	0.00
ATOM	1314	CB	SER	A	88	2.291	16.289	1.083	1.00	0.00
ATOM	1315	OG	SER	A	88	1.155	16.237	1.929	1.00	0.00
ATOM	1316	H	SER	A	88	2.980	14.175	-0.464	1.00	0.00
ATOM	1317	HA	SER	A	88	0.862	16.215	-0.506	1.00	0.00
ATOM	1318	1HB	SER	A	88	3.007	15.554	1.419	1.00	0.00
ATOM	1319	2HB	SER	A	88	2.729	17.274	1.150	1.00	0.00
ATOM	1320	HG	SER	A	88	1.439	16.200	2.845	1.00	0.00
ATOM	1321	N	PRO	A	89	2.246	18.118	-1.568	1.00	0.00
ATOM	1322	CA	PRO	A	89	2.935	19.064	-2.454	1.00	0.00
ATOM	1323	C	PRO	A	89	4.300	19.481	-1.916	1.00	0.00



ATOM 1324	O	PRO A	89	5.156	19.948	-2.666	1.00	0.00
ATOM 1325	CB	PRO A	89	1.993	20.274	-2.508	1.00	0.00
ATOM 1326	CG	PRO A	89	0.682	19.782	-1.997	1.00	0.00
ATOM 1327	CD	PRO A	89	1.001	18.684	-1.026	1.00	0.00
ATOM 1328	HA	PRO A	89	3.053	18.659	-3.446	1.00	0.00
ATOM 1329	1HB	PRO A	89	2.387	21.061	-1.886	1.00	0.00
ATOM 1330	2HB	PRO A	89	1.913	20.623	-3.527	1.00	0.00
ATOM 1331	1HG	PRO A	89	0.158	20.583	-1.499	1.00	0.00
ATOM 1332	2HG	PRO A	89	0.090	19.397	-2.816	1.00	0.00
ATOM 1333	1HD	PRO A	89	1.158	19.088	-0.036	1.00	0.00
ATOM 1334	2HD	PRO A	89	0.213	17.947	-1.015	1.00	0.00
ATOM 1335	N	LEU A	90	4.497	19.315	-0.612	1.00	0.00
ATOM 1336	CA	LEU A	90	5.759	19.679	0.024	1.00	0.00
ATOM 1337	C	LEU A	90	6.907	18.820	-0.500	1.00	0.00
ATOM 1338	O	LEU A	90	8.063	19.245	-0.496	1.00	0.00
ATOM 1339	CB	LEU A	90	5.649	19.529	1.542	1.00	0.00
ATOM 1340	CG	LEU A	90	4.922	20.671	2.254	1.00	0.00
ATOM 1341	CD1	LEU A	90	3.417	20.453	2.215	1.00	0.00
ATOM 1342	CD2	LEU A	90	5.407	20.797	3.690	1.00	0.00
ATOM 1343	H	LEU A	90	3.777	18.941	-0.062	1.00	0.00
ATOM 1344	HA	LEU A	90	5.962	20.712	-0.213	1.00	0.00
ATOM 1345	1HB	LEU A	90	5.124	18.609	1.755	1.00	0.00
ATOM 1346	2HB	LEU A	90	6.646	19.458	1.949	1.00	0.00
ATOM 1347	HG	LEU A	90	5.137	21.600	1.744	1.00	0.00
ATOM 1348	1HD1	LEU A	90	2.970	20.870	3.105	1.00	0.00
ATOM 1349	2HD1	LEU A	90	3.208	19.395	2.168	1.00	0.00
ATOM 1350	3HD1	LEU A	90	3.006	20.940	1.343	1.00	0.00

ATOM	1351	1HD2	LEU	A	90	5.768	19.839	4.033	1.00	0.00
ATOM	1352	2HD2	LEU	A	90	4.591	21.121	4.318	1.00	0.00
ATOM	1353	3HD2	LEU	A	90	6.208	21.521	3.737	1.00	0.00
ATOM	1354	N	ALA	A	91	6.583	17.610	-0.947	1.00	0.00
ATOM	1355	CA	ALA	A	91	7.590	16.694	-1.470	1.00	0.00
ATOM	1356	C	ALA	A	91	8.320	17.297	-2.666	1.00	0.00
ATOM	1357	O	ALA	A	91	9.435	17.803	-2.534	1.00	0.00
ATOM	1358	CB	ALA	A	91	6.946	15.368	-1.851	1.00	0.00
ATOM	1359	H	ALA	A	91	5.645	17.326	-0.923	1.00	0.00
ATOM	1360	HA	ALA	A	91	8.306	16.505	-0.683	1.00	0.00
ATOM	1361	1HB	ALA	A	91	7.102	14.652	-1.058	1.00	0.00
ATOM	1362	2HB	ALA	A	91	7.393	15.000	-2.763	1.00	0.00
ATOM	1363	3HB	ALA	A	91	5.887	15.514	-2.003	1.00	0.00
ATOM	1364	N	ARG	A	92	7.686	17.240	-3.833	1.00	0.00
ATOM	1365	CA	ARG	A	92	8.275	17.781	-5.055	1.00	0.00
ATOM	1366	C	ARG	A	92	9.570	17.052	-5.410	1.00	0.00
ATOM	1367	O	ARG	A	92	10.427	17.601	-6.101	1.00	0.00
ATOM	1368	CB	ARG	A	92	8.554	19.279	-4.898	1.00	0.00
ATOM	1369	CG	ARG	A	92	7.480	20.027	-4.124	1.00	0.00
ATOM	1370	CD	ARG	A	92	7.941	21.426	-3.747	1.00	0.00
ATOM	1371	NE	ARG	A	92	7.139	21.993	-2.665	1.00	0.00
ATOM	1372	CZ	ARG	A	92	5.953	22.570	-2.844	1.00	0.00
ATOM	1373	NH1	ARG	A	92	5.421	22.650	-4.057	1.00	0.00
ATOM	1374	NH2	ARG	A	92	5.295	23.065	-1.804	1.00	0.00
ATOM	1375	H	ARG	A	92	6.800	16.824	-3.875	1.00	0.00
ATOM	1376	HA	ARG	A	92	7.566	17.639	-5.856	1.00	0.00
ATOM	1377	1HB	ARG	A	92	9.493	19.405	-4.380	1.00	0.00

ATOM 1378	2HB	ARG	A	92	8.634	19.722	-5.880	1.00	0.00
ATOM 1379	1HG	ARG	A	92	6.595	20.103	-4.737	1.00	0.00
ATOM 1380	2HG	ARG	A	92	7.252	19.477	-3.223	1.00	0.00
ATOM 1381	1HD	ARG	A	92	8.972	21.378	-3.431	1.00	0.00
ATOM 1382	2HD	ARG	A	92	7.860	22.063	-4.615	1.00	0.00
ATOM 1383	HE	ARG	A	92	7.507	21.946	-1.758	1.00	0.00
ATOM 1384	1HH1	ARG	A	92	5.910	22.277	-4.845	1.00	0.00
ATOM 1385	2HH1	ARG	A	92	4.529	23.085	-4.183	1.00	0.00
ATOM 1386	1HH2	ARG	A	92	5.690	23.006	-0.888	1.00	0.00
ATOM 1387	2HH2	ARG	A	92	4.404	23.499	-1.937	1.00	0.00
ATOM 1388	N	ARG	A	93	9.706	15.818	-4.936	1.00	0.00
ATOM 1389	CA	ARG	A	93	10.900	15.024	-5.210	1.00	0.00
ATOM 1390	C	ARG	A	93	10.635	13.538	-4.978	1.00	0.00
ATOM 1391	O	ARG	A	93	11.539	12.787	-4.610	1.00	0.00
ATOM 1392	CB	ARG	A	93	12.061	15.493	-4.330	1.00	0.00
ATOM 1393	CG	ARG	A	93	13.072	16.360	-5.066	1.00	0.00
ATOM 1394	CD	ARG	A	93	14.020	15.522	-5.909	1.00	0.00
ATOM 1395	NE	ARG	A	93	15.420	15.823	-5.619	1.00	0.00
ATOM 1396	CZ	ARG	A	93	16.427	15.532	-6.441	1.00	0.00
ATOM 1397	NH1	ARG	A	93	16.195	14.934	-7.602	1.00	0.00
ATOM 1398	NH2	ARG	A	93	17.670	15.842	-6.100	1.00	0.00
ATOM 1399	H	ARG	A	93	8.990	15.431	-4.391	1.00	0.00
ATOM 1400	HA	ARG	A	93	11.164	15.171	-6.246	1.00	0.00
ATOM 1401	1HB	ARG	A	93	11.664	16.066	-3.505	1.00	0.00
ATOM 1402	2HB	ARG	A	93	12.579	14.629	-3.940	1.00	0.00
ATOM 1403	1HG	ARG	A	93	12.542	17.043	-5.712	1.00	0.00
ATOM 1404	2HG	ARG	A	93	13.646	16.919	-4.341	1.00	0.00

ATOM	1405	1HD	ARG	A	93	13.837	14.477	-5.705	1.00	0.00
ATOM	1406	2HD	ARG	A	93	13.827	15.723	-6.952	1.00	0.00
ATOM	1407	HE	ARG	A	93	15.621	16.264	-4.768	1.00	0.00
ATOM	1408	1HH1	ARG	A	93	15.259	14.697	-7.866	1.00	0.00
ATOM	1409	2HH1	ARG	A	93	16.956	14.720	-8.215	1.00	0.00
ATOM	1410	1HH2	ARG	A	93	17.852	16.293	-5.226	1.00	0.00
ATOM	1411	2HH2	ARG	A	93	18.428	15.623	-6.715	1.00	0.00
ATOM	1412	N	VAL	A	94	9.393	13.118	-5.194	1.00	0.00
ATOM	1413	CA	VAL	A	94	9.017	11.722	-5.007	1.00	0.00
ATOM	1414	C	VAL	A	94	8.947	10.990	-6.344	1.00	0.00
ATOM	1415	O	VAL	A	94	8.643	11.587	-7.376	1.00	0.00
ATOM	1416	CB	VAL	A	94	7.657	11.595	-4.293	1.00	0.00
ATOM	1417	CG1	VAL	A	94	7.357	10.139	-3.969	1.00	0.00
ATOM	1418	CG2	VAL	A	94	7.634	12.444	-3.031	1.00	0.00
ATOM	1419	H	VAL	A	94	8.714	13.762	-5.486	1.00	0.00
ATOM	1420	HA	VAL	A	94	9.770	11.254	-4.390	1.00	0.00
ATOM	1421	HB	VAL	A	94	6.888	11.958	-4.958	1.00	0.00
ATOM	1422	1HG1	VAL	A	94	6.378	10.066	-3.517	1.00	0.00
ATOM	1423	2HG1	VAL	A	94	8.099	9.762	-3.281	1.00	0.00
ATOM	1424	3HG1	VAL	A	94	7.379	9.556	-4.878	1.00	0.00
ATOM	1425	1HG2	VAL	A	94	8.427	13.177	-3.074	1.00	0.00
ATOM	1426	2HG2	VAL	A	94	7.777	11.811	-2.168	1.00	0.00
ATOM	1427	3HG2	VAL	A	94	6.682	12.948	-2.954	1.00	0.00
ATOM	1428	N	ASP	A	95	9.231	9.691	-6.315	1.00	0.00
ATOM	1429	CA	ASP	A	95	9.202	8.875	-7.523	1.00	0.00
ATOM	1430	C	ASP	A	95	8.459	7.566	-7.276	1.00	0.00
ATOM	1431	O	ASP	A	95	8.309	7.131	-6.134	1.00	0.00

ATOM 1432	CB	ASP	A	95	10.627	8.587	-8.004	1.00	0.00
ATOM 1433	CG	ASP	A	95	10.983	9.368	-9.254	1.00	0.00
ATOM 1434	OD1	ASP	A	95	12.102	9.920	-9.309	1.00	0.00
ATOM 1435	OD2	ASP	A	95	10.143	9.428	-10.176	1.00	0.00
ATOM 1436	H	ASP	A	95	9.468	9.273	-5.461	1.00	0.00
ATOM 1437	HA	ASP	A	95	8.680	9.432	-8.286	1.00	0.00
ATOM 1438	1HB	ASP	A	95	11.324	8.855	-7.224	1.00	0.00
ATOM 1439	2HB	ASP	A	95	10.723	7.533	-8.220	1.00	0.00
ATOM 1440	N	ARG	A	96	7.995	6.941	-8.353	1.00	0.00
ATOM 1441	CA	ARG	A	96	7.268	5.682	-8.253	1.00	0.00
ATOM 1442	C	ARG	A	96	8.151	4.590	-7.654	1.00	0.00
ATOM 1443	O	ARG	A	96	7.672	3.722	-6.925	1.00	0.00
ATOM 1444	CB	ARG	A	96	6.764	5.248	-9.630	1.00	0.00
ATOM 1445	CG	ARG	A	96	7.870	5.092	-10.662	1.00	0.00
ATOM 1446	CD	ARG	A	96	7.333	5.215	-12.079	1.00	0.00
ATOM 1447	NE	ARG	A	96	8.269	5.906	-12.962	1.00	0.00
ATOM 1448	CZ	ARG	A	96	8.175	5.904	-14.289	1.00	0.00
ATOM 1449	NH1	ARG	A	96	7.190	5.248	-14.891	1.00	0.00
ATOM 1450	NH2	ARG	A	96	9.068	6.559	-15.018	1.00	0.00
ATOM 1451	H	ARG	A	96	8.146	7.337	-9.237	1.00	0.00
ATOM 1452	HA	ARG	A	96	6.420	5.839	-7.603	1.00	0.00
ATOM 1453	1HB	ARG	A	96	6.257	4.300	-9.533	1.00	0.00
ATOM 1454	2HB	ARG	A	96	6.064	5.986	-9.994	1.00	0.00
ATOM 1455	1HG	ARG	A	96	8.611	5.862	-10.501	1.00	0.00
ATOM 1456	2HG	ARG	A	96	8.327	4.121	-10.542	1.00	0.00
ATOM 1457	1HD	ARG	A	96	7.152	4.224	-12.467	1.00	0.00
ATOM 1458	2HD	ARG	A	96	6.404	5.765	-12.051	1.00	0.00

ATOM 1459	HE	ARG	A	96	9.006	6.399	-12.544	1.00	0.00
ATOM 1460	1HH1	ARG	A	96	6.514	4.751	-14.349	1.00	0.00
ATOM 1461	2HH1	ARG	A	96	7.125	5.251	-15.889	1.00	0.00
ATOM 1462	1HH2	ARG	A	96	9.813	7.055	-14.569	1.00	0.00
ATOM 1463	2HH2	ARG	A	96	8.998	6.558	-16.015	1.00	0.00
ATOM 1464	N	VAL	A	97	9.441	4.641	-7.969	1.00	0.00
ATOM 1465	CA	VAL	A	97	10.390	3.657	-7.463	1.00	0.00
ATOM 1466	C	VAL	A	97	10.549	3.772	-5.950	1.00	0.00
ATOM 1467	O	VAL	A	97	10.822	2.785	-5.267	1.00	0.00
ATOM 1468	CB	VAL	A	97	11.770	3.815	-8.125	1.00	0.00
ATOM 1469	CG1	VAL	A	97	12.685	2.662	-7.740	1.00	0.00
ATOM 1470	CG2	VAL	A	97	11.629	3.909	-9.637	1.00	0.00
ATOM 1471	H	VAL	A	97	9.762	5.357	-8.555	1.00	0.00
ATOM 1472	HA	VAL	A	97	10.009	2.674	-7.701	1.00	0.00
ATOM 1473	HB	VAL	A	97	12.215	4.732	-7.770	1.00	0.00
ATOM 1474	1HG1	VAL	A	97	13.483	2.579	-8.461	1.00	0.00
ATOM 1475	2HG1	VAL	A	97	12.118	1.743	-7.721	1.00	0.00
ATOM 1476	3HG1	VAL	A	97	13.103	2.847	-6.761	1.00	0.00
ATOM 1477	1HG2	VAL	A	97	12.607	3.862	-10.094	1.00	0.00
ATOM 1478	2HG2	VAL	A	97	11.156	4.845	-9.897	1.00	0.00
ATOM 1479	3HG2	VAL	A	97	11.025	3.088	-9.994	1.00	0.00
ATOM 1480	N	ALA	A	98	10.378	4.984	-5.432	1.00	0.00
ATOM 1481	CA	ALA	A	98	10.504	5.228	-4.000	1.00	0.00
ATOM 1482	C	ALA	A	98	9.435	4.474	-3.218	1.00	0.00
ATOM 1483	O	ALA	A	98	9.744	3.711	-2.302	1.00	0.00
ATOM 1484	CB	ALA	A	98	10.421	6.719	-3.710	1.00	0.00
ATOM 1485	H	ALA	A	98	10.163	5.733	-6.026	1.00	0.00

ATOM 1486	HA	ALA	A	98	11.478	4.879	-3.687	1.00	0.00
ATOM 1487	1HB	ALA	A	98	11.413	7.143	-3.717	1.00	0.00
ATOM 1488	2HB	ALA	A	98	9.971	6.873	-2.740	1.00	0.00
ATOM 1489	3HB	ALA	A	98	9.817	7.199	-4.467	1.00	0.00
ATOM 1490	N	ILE	A	99	8.175	4.693	-3.582	1.00	0.00
ATOM 1491	CA	ILE	A	99	7.061	4.033	-2.912	1.00	0.00
ATOM 1492	C	ILE	A	99	7.088	2.526	-3.156	1.00	0.00
ATOM 1493	O	ILE	A	99	6.570	1.749	-2.354	1.00	0.00
ATOM 1494	CB	ILE	A	99	5.704	4.595	-3.382	1.00	0.00
ATOM 1495	CG1	ILE	A	99	5.698	6.122	-3.291	1.00	0.00
ATOM 1496	CG2	ILE	A	99	4.571	4.007	-2.553	1.00	0.00
ATOM 1497	CD1	ILE	A	99	4.814	6.785	-4.324	1.00	0.00
ATOM 1498	H	ILE	A	99	7.992	5.312	-4.320	1.00	0.00
ATOM 1499	HA	ILE	A	99	7.155	4.216	-1.852	1.00	0.00
ATOM 1500	HB	ILE	A	99	5.552	4.303	-4.410	1.00	0.00
ATOM 1501	1HG1	ILE	A	99	5.341	6.416	-2.315	1.00	0.00
ATOM 1502	2HG1	ILE	A	99	6.703	6.491	-3.427	1.00	0.00
ATOM 1503	1HG2	ILE	A	99	4.072	3.235	-3.121	1.00	0.00
ATOM 1504	2HG2	ILE	A	99	3.865	4.784	-2.304	1.00	0.00
ATOM 1505	3HG2	ILE	A	99	4.972	3.581	-1.645	1.00	0.00
ATOM 1506	1HD1	ILE	A	99	4.901	7.859	-4.238	1.00	0.00
ATOM 1507	2HD1	ILE	A	99	3.787	6.494	-4.159	1.00	0.00
ATOM 1508	3HD1	ILE	A	99	5.122	6.478	-5.312	1.00	0.00
ATOM 1509	N	TYR	A	100	7.696	2.121	-4.267	1.00	0.00
ATOM 1510	CA	TYR	A	100	7.791	0.708	-4.616	1.00	0.00
ATOM 1511	C	TYR	A	100	8.845	0.004	-3.768	1.00	0.00
ATOM 1512	O	TYR	A	100	8.621	-1.098	-3.270	1.00	0.00

ATOM 1513	CB	TYR A 100	8.133	0.554	-6.100	1.00	0.00
ATOM 1514	CG	TYR A 100	8.136	-0.881	-6.578	1.00	0.00
ATOM 1515	CD1	TYR A 100	6.945	-1.550	-6.835	1.00	0.00
ATOM 1516	CD2	TYR A 100	9.328	-1.565	-6.774	1.00	0.00
ATOM 1517	CE1	TYR A 100	6.945	-2.860	-7.273	1.00	0.00
ATOM 1518	CE2	TYR A 100	9.336	-2.875	-7.212	1.00	0.00
ATOM 1519	CZ	TYR A 100	8.142	-3.518	-7.460	1.00	0.00
ATOM 1520	OH	TYR A 100	8.144	-4.823	-7.897	1.00	0.00
ATOM 1521	H	TYR A 100	8.090	2.788	-4.867	1.00	0.00
ATOM 1522	HA	TYR A 100	6.830	0.254	-4.428	1.00	0.00
ATOM 1523	1HB	TYR A 100	7.409	1.098	-6.686	1.00	0.00
ATOM 1524	2HB	TYR A 100	9.116	0.966	-6.278	1.00	0.00
ATOM 1525	HD1	TYR A 100	6.009	-1.031	-6.688	1.00	0.00
ATOM 1526	HD2	TYR A 100	10.262	-1.059	-6.577	1.00	0.00
ATOM 1527	HE1	TYR A 100	6.009	-3.363	-7.467	1.00	0.00
ATOM 1528	HE2	TYR A 100	10.274	-3.391	-7.358	1.00	0.00
ATOM 1529	HH	TYR A 100	7.846	-5.398	-7.189	1.00	0.00
ATOM 1530	N	GLU A 101	9.996	0.650	-3.611	1.00	0.00
ATOM 1531	CA	GLU A 101	11.090	0.086	-2.826	1.00	0.00
ATOM 1532	C	GLU A 101	10.717	-0.010	-1.350	1.00	0.00
ATOM 1533	O	GLU A 101	10.801	-1.081	-0.748	1.00	0.00
ATOM 1534	CB	GLU A 101	12.350	0.937	-2.990	1.00	0.00
ATOM 1535	CG	GLU A 101	13.201	0.540	-4.186	1.00	0.00
ATOM 1536	CD	GLU A 101	14.677	0.808	-3.965	1.00	0.00
ATOM 1537	OE1	GLU A 101	15.328	1.346	-4.886	1.00	0.00
ATOM 1538	OE2	GLU A 101	15.182	0.481	-2.871	1.00	0.00
ATOM 1539	H	GLU A 101	10.114	1.525	-4.036	1.00	0.00



ATOM 1540	HA	GLU A 101	11.286	-0.906	-3.201	1.00	0.00
ATOM 1541	1HB	GLU A 101	12.060	1.970	-3.110	1.00	0.00
ATOM 1542	2HB	GLU A 101	12.952	0.842	-2.099	1.00	0.00
ATOM 1543	1HG	GLU A 101	13.067	-0.515	-4.373	1.00	0.00
ATOM 1544	2HG	GLU A 101	12.873	1.102	-5.048	1.00	0.00
ATOM 1545	N	GLU A 102	10.310	1.114	-0.769	1.00	0.00
ATOM 1546	CA	GLU A 102	9.931	1.156	0.639	1.00	0.00
ATOM 1547	C	GLU A 102	8.814	0.159	0.938	1.00	0.00
ATOM 1548	O	GLU A 102	8.773	-0.436	2.014	1.00	0.00
ATOM 1549	CB	GLU A 102	9.490	2.570	1.028	1.00	0.00
ATOM 1550	CG	GLU A 102	10.413	3.241	2.032	1.00	0.00
ATOM 1551	CD	GLU A 102	10.695	4.691	1.688	1.00	0.00
ATOM 1552	OE1	GLU A 102	11.680	5.245	2.218	1.00	0.00
ATOM 1553	OE2	GLU A 102	9.929	5.271	0.891	1.00	0.00
ATOM 1554	H	GLU A 102	10.267	1.937	-1.301	1.00	0.00
ATOM 1555	HA	GLU A 102	10.799	0.889	1.222	1.00	0.00
ATOM 1556	1HB	GLU A 102	9.458	3.181	0.138	1.00	0.00
ATOM 1557	2HB	GLU A 102	8.500	2.524	1.457	1.00	0.00
ATOM 1558	1HG	GLU A 102	9.952	3.201	3.007	1.00	0.00
ATOM 1559	2HG	GLU A 102	11.349	2.702	2.055	1.00	0.00
ATOM 1560	N	PHE A 103	7.911	-0.018	-0.019	1.00	0.00
ATOM 1561	CA	PHE A 103	6.795	-0.942	0.145	1.00	0.00
ATOM 1562	C	PHE A 103	7.288	-2.382	0.254	1.00	0.00
ATOM 1563	O	PHE A 103	6.842	-3.138	1.118	1.00	0.00
ATOM 1564	CB	PHE A 103	5.820	-0.813	-1.027	1.00	0.00
ATOM 1565	CG	PHE A 103	4.587	-1.659	-0.879	1.00	0.00
ATOM 1566	CD1	PHE A 103	4.331	-2.696	-1.762	1.00	0.00

ATOM	1567	CD2	PHE	A	103	3.683	-1.416	0.142	1.00	0.00
ATOM	1568	CE1	PHE	A	103	3.198	-3.475	-1.628	1.00	0.00
ATOM	1569	CE2	PHE	A	103	2.546	-2.191	0.281	1.00	0.00
ATOM	1570	CZ	PHE	A	103	2.304	-3.222	-0.605	1.00	0.00
ATOM	1571	H	PHE	A	103	7.995	0.485	-0.856	1.00	0.00
ATOM	1572	HA	PHE	A	103	6.281	-0.681	1.059	1.00	0.00
ATOM	1573	1HB	PHE	A	103	5.507	0.217	-1.113	1.00	0.00
ATOM	1574	2HB	PHE	A	103	6.321	-1.110	-1.937	1.00	0.00
ATOM	1575	HD1	PHE	A	103	5.030	-2.895	-2.561	1.00	0.00
ATOM	1576	HD2	PHE	A	103	3.871	-0.609	0.836	1.00	0.00
ATOM	1577	HE1	PHE	A	103	3.011	-4.280	-2.323	1.00	0.00
ATOM	1578	HE2	PHE	A	103	1.849	-1.992	1.081	1.00	0.00
ATOM	1579	HZ	PHE	A	103	1.418	-3.830	-0.499	1.00	0.00
ATOM	1580	N	LEU	A	104	8.208	-2.755	-0.629	1.00	0.00
ATOM	1581	CA	LEU	A	104	8.761	-4.106	-0.636	1.00	0.00
ATOM	1582	C	LEU	A	104	9.518	-4.398	0.657	1.00	0.00
ATOM	1583	O	LEU	A	104	9.478	-5.515	1.172	1.00	0.00
ATOM	1584	CB	LEU	A	104	9.690	-4.292	-1.836	1.00	0.00
ATOM	1585	CG	LEU	A	104	9.018	-4.154	-3.203	1.00	0.00
ATOM	1586	CD1	LEU	A	104	10.022	-3.686	-4.246	1.00	0.00
ATOM	1587	CD2	LEU	A	104	8.387	-5.473	-3.620	1.00	0.00
ATOM	1588	H	LEU	A	104	8.523	-2.109	-1.295	1.00	0.00
ATOM	1589	HA	LEU	A	104	7.937	-4.799	-0.720	1.00	0.00
ATOM	1590	1HB	LEU	A	104	10.479	-3.558	-1.770	1.00	0.00
ATOM	1591	2HB	LEU	A	104	10.129	-5.277	-1.774	1.00	0.00
ATOM	1592	HG	LEU	A	104	8.235	-3.413	-3.138	1.00	0.00
ATOM	1593	1HD1	LEU	A	104	9.851	-4.214	-5.173	1.00	0.00

ATOM	1594	2HD1	LEU	A	104	11.024	-3.886	-3.897	1.00	0.00
ATOM	1595	3HD1	LEU	A	104	9.903	-2.626	-4.409	1.00	0.00
ATOM	1596	1HD2	LEU	A	104	7.347	-5.485	-3.326	1.00	0.00
ATOM	1597	2HD2	LEU	A	104	8.905	-6.290	-3.138	1.00	0.00
ATOM	1598	3HD2	LEU	A	104	8.458	-5.584	-4.692	1.00	0.00
ATOM	1599	N	ARG	A	105	10.213	-3.389	1.171	1.00	0.00
ATOM	1600	CA	ARG	A	105	10.986	-3.540	2.399	1.00	0.00
ATOM	1601	C	ARG	A	105	10.073	-3.789	3.598	1.00	0.00
ATOM	1602	O	ARG	A	105	10.440	-4.503	4.531	1.00	0.00
ATOM	1603	CB	ARG	A	105	11.841	-2.294	2.643	1.00	0.00
ATOM	1604	CG	ARG	A	105	13.290	-2.608	2.979	1.00	0.00
ATOM	1605	CD	ARG	A	105	14.196	-1.420	2.704	1.00	0.00
ATOM	1606	NE	ARG	A	105	15.531	-1.834	2.278	1.00	0.00
ATOM	1607	CZ	ARG	A	105	16.596	-1.036	2.294	1.00	0.00
ATOM	1608	NH1	ARG	A	105	16.487	0.219	2.712	1.00	0.00
ATOM	1609	NH2	ARG	A	105	17.773	-1.494	1.889	1.00	0.00
ATOM	1610	H	ARG	A	105	10.210	-2.523	0.712	1.00	0.00
ATOM	1611	HA	ARG	A	105	11.636	-4.392	2.277	1.00	0.00
ATOM	1612	1HB	ARG	A	105	11.826	-1.682	1.753	1.00	0.00
ATOM	1613	2HB	ARG	A	105	11.418	-1.733	3.463	1.00	0.00
ATOM	1614	1HG	ARG	A	105	13.359	-2.867	4.025	1.00	0.00
ATOM	1615	2HG	ARG	A	105	13.616	-3.445	2.378	1.00	0.00
ATOM	1616	1HD	ARG	A	105	13.752	-0.816	1.927	1.00	0.00
ATOM	1617	2HD	ARG	A	105	14.283	-0.833	3.608	1.00	0.00
ATOM	1618	HE	ARG	A	105	15.639	-2.756	1.964	1.00	0.00
ATOM	1619	1HH1	ARG	A	105	15.603	0.570	3.019	1.00	0.00
ATOM	1620	2HH1	ARG	A	105	17.291	0.814	2.722	1.00	0.00

ATOM 1621	1HH2	ARG	A	105	17.861	-2.438	1.573	1.00	0.00
ATOM 1622	2HH2	ARG	A	105	18.574	-0.894	1.901	1.00	0.00
ATOM 1623	N	MET	A	106	8.885	-3.193	3.568	1.00	0.00
ATOM 1624	CA	MET	A	106	7.925	-3.349	4.656	1.00	0.00
ATOM 1625	C	MET	A	106	7.044	-4.577	4.447	1.00	0.00
ATOM 1626	O	MET	A	106	6.503	-5.131	5.404	1.00	0.00
ATOM 1627	CB	MET	A	106	7.053	-2.100	4.776	1.00	0.00
ATOM 1628	CG	MET	A	106	6.391	-1.953	6.137	1.00	0.00
ATOM 1629	SD	MET	A	106	7.128	-0.642	7.133	1.00	0.00
ATOM 1630	CE	MET	A	106	7.032	0.739	5.998	1.00	0.00
ATOM 1631	H	MET	A	106	8.650	-2.634	2.798	1.00	0.00
ATOM 1632	HA	MET	A	106	8.481	-3.474	5.572	1.00	0.00
ATOM 1633	1HB	MET	A	106	7.666	-1.228	4.598	1.00	0.00
ATOM 1634	2HB	MET	A	106	6.278	-2.143	4.025	1.00	0.00
ATOM 1635	1HG	MET	A	106	5.346	-1.729	5.990	1.00	0.00
ATOM 1636	2HG	MET	A	106	6.485	-2.887	6.669	1.00	0.00
ATOM 1637	1HE	MET	A	106	6.917	1.656	6.556	1.00	0.00
ATOM 1638	2HE	MET	A	106	6.185	0.608	5.342	1.00	0.00
ATOM 1639	3HE	MET	A	106	7.939	0.787	5.411	1.00	0.00
ATOM 1640	N	THR	A	107	6.898	-4.998	3.195	1.00	0.00
ATOM 1641	CA	THR	A	107	6.076	-6.159	2.872	1.00	0.00
ATOM 1642	C	THR	A	107	6.924	-7.424	2.763	1.00	0.00
ATOM 1643	O	THR	A	107	6.545	-8.378	2.084	1.00	0.00
ATOM 1644	CB	THR	A	107	5.322	-5.924	1.562	1.00	0.00
ATOM 1645	OG1	THR	A	107	6.203	-5.464	0.552	1.00	0.00
ATOM 1646	CG2	THR	A	107	4.204	-4.913	1.690	1.00	0.00
ATOM 1647	H	THR	A	107	7.350	-4.515	2.472	1.00	0.00

ATOM 1648	HA	THR A 107	5.359	-6.289	3.668	1.00	0.00
ATOM 1649	HB	THR A 107	4.888	-6.858	1.235	1.00	0.00
ATOM 1650	HG1	THR A 107	7.023	-5.959	0.593	1.00	0.00
ATOM 1651	1HG2	THR A 107	4.208	-4.495	2.684	1.00	0.00
ATOM 1652	2HG2	THR A 107	3.257	-5.398	1.506	1.00	0.00
ATOM 1653	3HG2	THR A 107	4.349	-4.123	0.967	1.00	0.00
ATOM 1654	N	HIS A 108	8.070	-7.429	3.439	1.00	0.00
ATOM 1655	CA	HIS A 108	8.968	-8.582	3.419	1.00	0.00
ATOM 1656	C	HIS A 108	9.281	-9.013	1.988	1.00	0.00
ATOM 1657	O	HIS A 108	8.710	-9.978	1.481	1.00	0.00
ATOM 1658	CB	HIS A 108	8.348	-9.749	4.190	1.00	0.00
ATOM 1659	CG	HIS A 108	8.619	-9.705	5.661	1.00	0.00
ATOM 1660	ND1	HIS A 108	9.340	-10.678	6.324	1.00	0.00
ATOM 1661	CD2	HIS A 108	8.263	-8.798	6.602	1.00	0.00
ATOM 1662	CE1	HIS A 108	9.414	-10.371	7.607	1.00	0.00
ATOM 1663	NE2	HIS A 108	8.769	-9.235	7.801	1.00	0.00
ATOM 1664	H	HIS A 108	8.319	-6.643	3.965	1.00	0.00
ATOM 1665	HA	HIS A 108	9.888	-8.292	3.903	1.00	0.00
ATOM 1666	1HB	HIS A 108	7.278	-9.736	4.049	1.00	0.00
ATOM 1667	2HB	HIS A 108	8.746	-10.677	3.804	1.00	0.00
ATOM 1668	HD1	HIS A 108	9.738	-11.474	5.914	1.00	0.00
ATOM 1669	HD2	HIS A 108	7.686	-7.898	6.439	1.00	0.00
ATOM 1670	HE1	HIS A 108	9.917	-10.949	8.367	1.00	0.00
ATOM 1671	HE2	HIS A 108	8.601	-8.823	8.674	1.00	0.00
ATOM 1672	N	ASN A 109	10.191	-8.289	1.342	1.00	0.00
ATOM 1673	CA	ASN A 109	10.579	-8.597	-0.031	1.00	0.00
ATOM 1674	C	ASN A 109	9.363	-8.617	-0.952	1.00	0.00

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ATOM 1675	O	ASN A 109	9.341	-9.334	-1.953	1.00	0.00
ATOM 1676	CB	ASN A 109	11.298	-9.946	-0.089	1.00	0.00
ATOM 1677	CG	ASN A 109	12.799	-9.809	0.077	1.00	0.00
ATOM 1678	OD1	ASN A 109	13.330	-8.701	0.141	1.00	0.00
ATOM 1679	ND2	ASN A 109	13.492	-10.941	0.147	1.00	0.00
ATOM 1680	H	ASN A 109	10.611	-7.531	1.799	1.00	0.00
ATOM 1681	HA	ASN A 109	11.256	-7.824	-0.364	1.00	0.00
ATOM 1682	1HB	ASN A 109	10.924	-10.582	0.701	1.00	0.00
ATOM 1683	2HB	ASN A 109	11.100	-10.411	-1.043	1.00	0.00
ATOM 1684	1HD2	ASN A 109	13.002	-11.788	0.088	1.00	0.00
ATOM 1685	2HD2	ASN A 109	14.463	-10.882	0.254	1.00	0.00
ATOM 1686	N	GLY A 110	8.351	-7.826	-0.605	1.00	0.00
ATOM 1687	CA	GLY A 110	7.146	-7.770	-1.412	1.00	0.00
ATOM 1688	C	GLY A 110	6.462	-9.119	-1.524	1.00	0.00
ATOM 1689	O	GLY A 110	6.397	-9.699	-2.606	1.00	0.00
ATOM 1690	H	GLY A 110	8.424	-7.279	0.203	1.00	0.00
ATOM 1691	1HA	GLY A 110	6.460	-7.067	-0.964	1.00	0.00
ATOM 1692	2HA	GLY A 110	7.403	-7.426	-2.402	1.00	0.00
ATOM 1693	N	THR A 111	5.954	-9.618	-0.403	1.00	0.00
ATOM 1694	CA	THR A 111	5.275	-10.909	-0.383	1.00	0.00
ATOM 1695	C	THR A 111	4.138	-10.919	0.636	1.00	0.00
ATOM 1696	O	THR A 111	3.042	-11.400	0.350	1.00	0.00
ATOM 1697	CB	THR A 111	6.269	-12.026	-0.063	1.00	0.00
ATOM 1698	OG1	THR A 111	6.902	-11.792	1.182	1.00	0.00
ATOM 1699	CG2	THR A 111	7.353	-12.179	-1.109	1.00	0.00
ATOM 1700	H	THR A 111	6.039	-9.109	0.430	1.00	0.00
ATOM 1701	HA	THR A 111	4.861	-11.079	-1.365	1.00	0.00

ATOM 1702	HB	THR A 111	5.734	-12.963	-0.002	1.00	0.00
ATOM 1703	HG1	THR A 111	6.624	-12.460	1.813	1.00	0.00
ATOM 1704	1HG2	THR A 111	6.901	-12.244	-2.088	1.00	0.00
ATOM 1705	2HG2	THR A 111	7.918	-13.078	-0.913	1.00	0.00
ATOM 1706	3HG2	THR A 111	8.012	-11.324	-1.072	1.00	0.00
ATOM 1707	N	GLN A 112	4.406	-10.390	1.826	1.00	0.00
ATOM 1708	CA	GLN A 112	3.401	-10.347	2.882	1.00	0.00
ATOM 1709	C	GLN A 112	3.155	-8.917	3.352	1.00	0.00
ATOM 1710	O	GLN A 112	3.918	-8.375	4.152	1.00	0.00
ATOM 1711	CB	GLN A 112	3.839	-11.215	4.064	1.00	0.00
ATOM 1712	CG	GLN A 112	2.799	-11.305	5.169	1.00	0.00
ATOM 1713	CD	GLN A 112	3.410	-11.210	6.554	1.00	0.00
ATOM 1714	OE1	GLN A 112	4.425	-10.541	6.752	1.00	0.00
ATOM 1715	NE2	GLN A 112	2.794	-11.879	7.520	1.00	0.00
ATOM 1716	H	GLN A 112	5.299	-10.025	1.998	1.00	0.00
ATOM 1717	HA	GLN A 112	2.483	-10.742	2.480	1.00	0.00
ATOM 1718	1HB	GLN A 112	4.041	-12.214	3.706	1.00	0.00
ATOM 1719	2HB	GLN A 112	4.745	-10.802	4.484	1.00	0.00
ATOM 1720	1HG	GLN A 112	2.092	-10.498	5.047	1.00	0.00
ATOM 1721	2HG	GLN A 112	2.283	-12.251	5.084	1.00	0.00
ATOM 1722	1HE2	GLN A 112	1.991	-12.391	7.289	1.00	0.00
ATOM 1723	2HE2	GLN A 112	3.167	-11.835	8.425	1.00	0.00
ATOM 1724	N	LEU A 113	2.078	-8.312	2.857	1.00	0.00
ATOM 1725	CA	LEU A 113	1.728	-6.949	3.235	1.00	0.00
ATOM 1726	C	LEU A 113	1.252	-6.901	4.684	1.00	0.00
ATOM 1727	O	LEU A 113	0.067	-7.077	4.964	1.00	0.00
ATOM 1728	CB	LEU A 113	0.643	-6.399	2.301	1.00	0.00

ATOM 1729	CG	LEU A 113	0.164	-4.970	2.596	1.00	0.00
ATOM 1730	CD1	LEU A 113	-0.968	-4.983	3.610	1.00	0.00
ATOM 1731	CD2	LEU A 113	1.311	-4.096	3.087	1.00	0.00
ATOM 1732	H	LEU A 113	1.503	-8.797	2.226	1.00	0.00
ATOM 1733	HA	LEU A 113	2.615	-6.340	3.140	1.00	0.00
ATOM 1734	1HB	LEU A 113	1.027	-6.422	1.291	1.00	0.00
ATOM 1735	2HB	LEU A 113	-0.212	-7.057	2.356	1.00	0.00
ATOM 1736	HG	LEU A 113	-0.218	-4.535	1.684	1.00	0.00
ATOM 1737	1HD1	LEU A 113	-0.581	-4.730	4.586	1.00	0.00
ATOM 1738	2HD1	LEU A 113	-1.412	-5.968	3.643	1.00	0.00
ATOM 1739	3HD1	LEU A 113	-1.718	-4.261	3.322	1.00	0.00
ATOM 1740	1HD2	LEU A 113	0.921	-3.143	3.415	1.00	0.00
ATOM 1741	2HD2	LEU A 113	2.014	-3.939	2.284	1.00	0.00
ATOM 1742	3HD2	LEU A 113	1.809	-4.584	3.913	1.00	0.00
ATOM 1743	N	LEU A 114	2.189	-6.670	5.600	1.00	0.00
ATOM 1744	CA	LEU A 114	1.876	-6.605	7.024	1.00	0.00
ATOM 1745	C	LEU A 114	1.324	-7.938	7.524	1.00	0.00
ATOM 1746	O	LEU A 114	2.046	-8.728	8.134	1.00	0.00
ATOM 1747	CB	LEU A 114	0.870	-5.484	7.300	1.00	0.00
ATOM 1748	CG	LEU A 114	1.443	-4.067	7.227	1.00	0.00
ATOM 1749	CD1	LEU A 114	0.394	-3.043	7.628	1.00	0.00
ATOM 1750	CD2	LEU A 114	2.677	-3.946	8.111	1.00	0.00
ATOM 1751	H	LEU A 114	3.117	-6.544	5.310	1.00	0.00
ATOM 1752	HA	LEU A 114	2.793	-6.390	7.552	1.00	0.00
ATOM 1753	1HB	LEU A 114	0.067	-5.562	6.583	1.00	0.00
ATOM 1754	2HB	LEU A 114	0.462	-5.632	8.289	1.00	0.00
ATOM 1755	HG	LEU A 114	1.739	-3.860	6.209	1.00	0.00



ATOM 1756	1HD1	LEU	A	114	-0.434	-3.543	8.110	1.00	0.00
ATOM 1757	2HD1	LEU	A	114	0.040	-2.527	6.749	1.00	0.00
ATOM 1758	3HD1	LEU	A	114	0.828	-2.329	8.313	1.00	0.00
ATOM 1759	1HD2	LEU	A	114	3.486	-4.518	7.681	1.00	0.00
ATOM 1760	2HD2	LEU	A	114	2.452	-4.325	9.097	1.00	0.00
ATOM 1761	3HD2	LEU	A	114	2.969	-2.909	8.182	1.00	0.00
ATOM 1762	N	ASN	A	115	0.044	-8.182	7.263	1.00	0.00
ATOM 1763	CA	ASN	A	115	-0.601	-9.419	7.688	1.00	0.00
ATOM 1764	C	ASN	A	115	-1.042	-10.247	6.483	1.00	0.00
ATOM 1765	O	ASN	A	115	-0.995	-11.477	6.513	1.00	0.00
ATOM 1766	CB	ASN	A	115	-1.805	-9.108	8.580	1.00	0.00
ATOM 1767	CG	ASN	A	115	-1.540	-9.425	10.039	1.00	0.00
ATOM 1768	OD1	ASN	A	115	-0.755	-10.317	10.359	1.00	0.00
ATOM 1769	ND2	ASN	A	115	-2.198	-8.695	10.932	1.00	0.00
ATOM 1770	H	ASN	A	115	-0.478	-7.513	6.773	1.00	0.00
ATOM 1771	HA	ASN	A	115	0.118	-9.989	8.256	1.00	0.00
ATOM 1772	1HB	ASN	A	115	-2.045	-8.059	8.497	1.00	0.00
ATOM 1773	2HB	ASN	A	115	-2.652	-9.694	8.251	1.00	0.00
ATOM 1774	1HD2	ASN	A	115	-2.809	-8.001	10.603	1.00	0.00
ATOM 1775	2HD2	ASN	A	115	-2.046	-8.879	11.882	1.00	0.00
ATOM 1776	N	PHE	A	116	-1.472	-9.565	5.427	1.00	0.00
ATOM 1777	CA	PHE	A	116	-1.925	-10.239	4.214	1.00	0.00
ATOM 1778	C	PHE	A	116	-0.742	-10.742	3.393	1.00	0.00
ATOM 1779	O	PHE	A	116	0.381	-10.261	3.543	1.00	0.00
ATOM 1780	CB	PHE	A	116	-2.777	-9.290	3.369	1.00	0.00
ATOM 1781	CG	PHE	A	116	-4.222	-9.254	3.780	1.00	0.00
ATOM 1782	CD1	PHE	A	116	-4.635	-8.457	4.835	1.00	0.00

ATOM 1783	CD2	PHE A 116	-5.165	-10.015	3.109	1.00	0.00
ATOM 1784	CE1	PHE A 116	-5.964	-8.420	5.214	1.00	0.00
ATOM 1785	CE2	PHE A 116	-6.495	-9.982	3.484	1.00	0.00
ATOM 1786	CZ	PHE A 116	-6.895	-9.184	4.538	1.00	0.00
ATOM 1787	H	PHE A 116	-1.489	-8.586	5.464	1.00	0.00
ATOM 1788	HA	PHE A 116	-2.528	-11.083	4.510	1.00	0.00
ATOM 1789	1HB	PHE A 116	-2.382	-8.289	3.456	1.00	0.00
ATOM 1790	2HB	PHE A 116	-2.731	-9.602	2.336	1.00	0.00
ATOM 1791	HD1	PHE A 116	-3.909	-7.859	5.365	1.00	0.00
ATOM 1792	HD2	PHE A 116	-4.854	-10.639	2.285	1.00	0.00
ATOM 1793	HE1	PHE A 116	-6.274	-7.796	6.040	1.00	0.00
ATOM 1794	HE2	PHE A 116	-7.221	-10.581	2.953	1.00	0.00
ATOM 1795	HZ	PHE A 116	-7.934	-9.157	4.832	1.00	0.00
ATOM 1796	N	THR A 117	-1.005	-11.715	2.525	1.00	0.00
ATOM 1797	CA	THR A 117	0.035	-12.286	1.677	1.00	0.00
ATOM 1798	C	THR A 117	-0.272	-12.039	0.203	1.00	0.00
ATOM 1799	O	THR A 117	-1.251	-12.559	-0.331	1.00	0.00
ATOM 1800	CB	THR A 117	0.169	-13.787	1.937	1.00	0.00
ATOM 1801	OG1	THR A 117	-1.055	-14.451	1.680	1.00	0.00
ATOM 1802	CG2	THR A 117	0.579	-14.113	3.358	1.00	0.00
ATOM 1803	H	THR A 117	-1.920	-12.055	2.452	1.00	0.00
ATOM 1804	HA	THR A 117	0.968	-11.802	1.923	1.00	0.00
ATOM 1805	HB	THR A 117	0.921	-14.191	1.275	1.00	0.00
ATOM 1806	HG1	THR A 117	-0.888	-15.238	1.157	1.00	0.00
ATOM 1807	1HG2	THR A 117	1.284	-14.930	3.350	1.00	0.00
ATOM 1808	2HG2	THR A 117	-0.294	-14.396	3.928	1.00	0.00
ATOM 1809	3HG2	THR A 117	1.037	-13.245	3.808	1.00	0.00

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ATOM 1810	N	LEU A 118	0.568	-11.242	-0.449	1.00	0.00
ATOM 1811	CA	LEU A 118	0.379	-10.927	-1.861	1.00	0.00
ATOM 1812	C	LEU A 118	1.650	-11.201	-2.662	1.00	0.00
ATOM 1813	O	LEU A 118	2.738	-11.317	-2.099	1.00	0.00
ATOM 1814	CB	LEU A 118	-0.049	-9.468	-2.026	1.00	0.00
ATOM 1815	CG	LEU A 118	0.801	-8.446	-1.270	1.00	0.00
ATOM 1816	CD1	LEU A 118	1.948	-7.959	-2.139	1.00	0.00
ATOM 1817	CD2	LEU A 118	-0.058	-7.278	-0.809	1.00	0.00
ATOM 1818	H	LEU A 118	1.331	-10.855	0.030	1.00	0.00
ATOM 1819	HA	LEU A 118	-0.407	-11.565	-2.235	1.00	0.00
ATOM 1820	1HB	LEU A 118	-0.018	-9.223	-3.077	1.00	0.00
ATOM 1821	2HB	LEU A 118	-1.068	-9.374	-1.683	1.00	0.00
ATOM 1822	HG	LEU A 118	1.223	-8.916	-0.395	1.00	0.00
ATOM 1823	1HD1	LEU A 118	1.550	-7.443	-3.000	1.00	0.00
ATOM 1824	2HD1	LEU A 118	2.536	-8.804	-2.465	1.00	0.00
ATOM 1825	3HD1	LEU A 118	2.570	-7.285	-1.569	1.00	0.00
ATOM 1826	1HD2	LEU A 118	0.496	-6.358	-0.919	1.00	0.00
ATOM 1827	2HD2	LEU A 118	-0.326	-7.416	0.228	1.00	0.00
ATOM 1828	3HD2	LEU A 118	-0.955	-7.234	-1.410	1.00	0.00
ATOM 1829	N	ASP A 119	1.499	-11.312	-3.978	1.00	0.00
ATOM 1830	CA	ASP A 119	2.630	-11.583	-4.859	1.00	0.00
ATOM 1831	C	ASP A 119	3.516	-10.350	-5.016	1.00	0.00
ATOM 1832	O	ASP A 119	3.171	-9.262	-4.555	1.00	0.00
ATOM 1833	CB	ASP A 119	2.134	-12.046	-6.229	1.00	0.00
ATOM 1834	CG	ASP A 119	2.965	-13.181	-6.793	1.00	0.00
ATOM 1835	OD1	ASP A 119	2.596	-14.354	-6.571	1.00	0.00
ATOM 1836	OD2	ASP A 119	3.983	-12.898	-7.457	1.00	0.00

ATOM 1837	H	ASP A 119	0.605	-11.215	-4.367	1.00	0.00
ATOM 1838	HA	ASP A 119	3.214	-12.374	-4.413	1.00	0.00
ATOM 1839	1HB	ASP A 119	1.112	-12.384	-6.140	1.00	0.00
ATOM 1840	2HB	ASP A 119	2.174	-11.216	-6.920	1.00	0.00
ATOM 1841	N	ARG A 120	4.658	-10.531	-5.672	1.00	0.00
ATOM 1842	CA	ARG A 120	5.595	-9.436	-5.895	1.00	0.00
ATOM 1843	C	ARG A 120	5.552	-8.970	-7.346	1.00	0.00
ATOM 1844	O	ARG A 120	5.426	-7.777	-7.622	1.00	0.00
ATOM 1845	CB	ARG A 120	7.017	-9.868	-5.531	1.00	0.00
ATOM 1846	CG	ARG A 120	7.972	-8.703	-5.333	1.00	0.00
ATOM 1847	CD	ARG A 120	9.343	-9.172	-4.873	1.00	0.00
ATOM 1848	NE	ARG A 120	10.344	-9.061	-5.933	1.00	0.00
ATOM 1849	CZ	ARG A 120	11.652	-8.950	-5.712	1.00	0.00
ATOM 1850	NH1	ARG A 120	12.127	-8.943	-4.471	1.00	0.00
ATOM 1851	NH2	ARG A 120	12.490	-8.849	-6.734	1.00	0.00
ATOM 1852	H	ARG A 120	4.875	-11.423	-6.017	1.00	0.00
ATOM 1853	HA	ARG A 120	5.303	-8.615	-5.256	1.00	0.00
ATOM 1854	1HB	ARG A 120	6.985	-10.439	-4.616	1.00	0.00
ATOM 1855	2HB	ARG A 120	7.405	-10.492	-6.321	1.00	0.00
ATOM 1856	1HG	ARG A 120	8.079	-8.176	-6.270	1.00	0.00
ATOM 1857	2HG	ARG A 120	7.561	-8.037	-4.589	1.00	0.00
ATOM 1858	1HD	ARG A 120	9.653	-8.567	-4.035	1.00	0.00
ATOM 1859	2HD	ARG A 120	9.273	-10.205	-4.564	1.00	0.00
ATOM 1860	HE	ARG A 120	10.023	-9.068	-6.859	1.00	0.00
ATOM 1861	1HH1	ARG A 120	11.503	-9.022	-3.695	1.00	0.00
ATOM 1862	2HH1	ARG A 120	13.111	-8.859	-4.314	1.00	0.00
ATOM 1863	1HH2	ARG A 120	12.139	-8.857	-7.671	1.00	0.00

ATOM 1864	2HH2	ARG	A	120	13.473	-8.766	-6.569	1.00	0.00
ATOM 1865	N	LYS	A	121	5.658	-9.920	-8.271	1.00	0.00
ATOM 1866	CA	LYS	A	121	5.632	-9.608	-9.697	1.00	0.00
ATOM 1867	C	LYS	A	121	4.408	-8.769	-10.053	1.00	0.00
ATOM 1868	O	LYS	A	121	4.435	-7.985	-11.002	1.00	0.00
ATOM 1869	CB	LYS	A	121	5.637	-10.897	-10.522	1.00	0.00
ATOM 1870	CG	LYS	A	121	7.031	-11.387	-10.878	1.00	0.00
ATOM 1871	CD	LYS	A	121	6.980	-12.656	-11.712	1.00	0.00
ATOM 1872	CE	LYS	A	121	7.219	-13.892	-10.861	1.00	0.00
ATOM 1873	NZ	LYS	A	121	6.544	-15.093	-11.424	1.00	0.00
ATOM 1874	H	LYS	A	121	5.757	-10.853	-7.987	1.00	0.00
ATOM 1875	HA	LYS	A	121	6.521	-9.041	-9.928	1.00	0.00
ATOM 1876	1HB	LYS	A	121	5.139	-11.673	-9.959	1.00	0.00
ATOM 1877	2HB	LYS	A	121	5.093	-10.725	-11.439	1.00	0.00
ATOM 1878	1HG	LYS	A	121	7.539	-10.619	-11.441	1.00	0.00
ATOM 1879	2HG	LYS	A	121	7.575	-11.587	-9.966	1.00	0.00
ATOM 1880	1HD	LYS	A	121	6.007	-12.733	-12.174	1.00	0.00
ATOM 1881	2HD	LYS	A	121	7.740	-12.603	-12.477	1.00	0.00
ATOM 1882	1HE	LYS	A	121	8.282	-14.078	-10.810	1.00	0.00
ATOM 1883	2HE	LYS	A	121	6.838	-13.708	-9.867	1.00	0.00
ATOM 1884	1HZ	LYS	A	121	7.130	-15.939	-11.267	1.00	0.00
ATOM 1885	2HZ	LYS	A	121	6.395	-14.974	-12.446	1.00	0.00
ATOM 1886	3HZ	LYS	A	121	5.621	-15.233	-10.964	1.00	0.00
ATOM 1887	N	SER	A	122	3.337	-8.936	-9.283	1.00	0.00
ATOM 1888	CA	SER	A	122	2.106	-8.192	-9.514	1.00	0.00
ATOM 1889	C	SER	A	122	2.229	-6.765	-8.988	1.00	0.00
ATOM 1890	O	SER	A	122	1.592	-5.846	-9.504	1.00	0.00

ATOM 1891	CB	SER A 122	0.925	-8.895	-8.845	1.00	0.00
ATOM 1892	OG	SER A 122	-0.305	-8.298	-9.220	1.00	0.00
ATOM 1893	H	SER A 122	3.378	-9.574	-8.539	1.00	0.00
ATOM 1894	HA	SER A 122	1.936	-8.156	-10.580	1.00	0.00
ATOM 1895	1HB	SER A 122	0.911	-9.934	-9.143	1.00	0.00
ATOM 1896	2HB	SER A 122	1.030	-8.831	-7.772	1.00	0.00
ATOM 1897	HG	SER A 122	-0.618	-8.694	-10.037	1.00	0.00
ATOM 1898	N	VAL A 123	3.052	-6.587	-7.960	1.00	0.00
ATOM 1899	CA	VAL A 123	3.260	-5.273	-7.365	1.00	0.00
ATOM 1900	C	VAL A 123	3.886	-4.312	-8.370	1.00	0.00
ATOM 1901	O	VAL A 123	4.821	-4.668	-9.086	1.00	0.00
ATOM 1902	CB	VAL A 123	4.164	-5.353	-6.119	1.00	0.00
ATOM 1903	CG1	VAL A 123	4.225	-4.007	-5.415	1.00	0.00
ATOM 1904	CG2	VAL A 123	3.673	-6.436	-5.171	1.00	0.00
ATOM 1905	H	VAL A 123	3.533	-7.358	-7.593	1.00	0.00
ATOM 1906	HA	VAL A 123	2.297	-4.886	-7.062	1.00	0.00
ATOM 1907	HB	VAL A 123	5.162	-5.612	-6.440	1.00	0.00
ATOM 1908	1HG1	VAL A 123	5.138	-3.942	-4.841	1.00	0.00
ATOM 1909	2HG1	VAL A 123	3.376	-3.906	-4.755	1.00	0.00
ATOM 1910	3HG1	VAL A 123	4.206	-3.215	-6.149	1.00	0.00
ATOM 1911	1HG2	VAL A 123	4.261	-6.416	-4.266	1.00	0.00
ATOM 1912	2HG2	VAL A 123	3.772	-7.401	-5.643	1.00	0.00
ATOM 1913	3HG2	VAL A 123	2.635	-6.260	-4.929	1.00	0.00
ATOM 1914	N	PHE A 124	3.364	-3.091	-8.418	1.00	0.00
ATOM 1915	CA	PHE A 124	3.874	-2.079	-9.335	1.00	0.00
ATOM 1916	C	PHE A 124	3.203	-0.733	-9.087	1.00	0.00
ATOM 1917	O	PHE A 124	2.040	-0.671	-8.691	1.00	0.00

ATOM	1918	CB	PHE A 124	3.651	-2.515	-10.784	1.00	0.00
ATOM	1919	CG	PHE A 124	4.322	-1.622	-11.789	1.00	0.00
ATOM	1920	CD1	PHE A 124	5.476	-2.031	-12.437	1.00	0.00
ATOM	1921	CD2	PHE A 124	3.798	-0.373	-12.085	1.00	0.00
ATOM	1922	CE1	PHE A 124	6.096	-1.213	-13.361	1.00	0.00
ATOM	1923	CE2	PHE A 124	4.414	0.450	-13.008	1.00	0.00
ATOM	1924	CZ	PHE A 124	5.564	0.031	-13.648	1.00	0.00
ATOM	1925	H	PHE A 124	2.619	-2.864	-7.822	1.00	0.00
ATOM	1926	HA	PHE A 124	4.935	-1.977	-9.160	1.00	0.00
ATOM	1927	1HB	PHE A 124	4.038	-3.514	-10.917	1.00	0.00
ATOM	1928	2HB	PHE A 124	2.591	-2.515	-10.994	1.00	0.00
ATOM	1929	HD1	PHE A 124	5.893	-3.002	-12.215	1.00	0.00
ATOM	1930	HD2	PHE A 124	2.899	-0.044	-11.586	1.00	0.00
ATOM	1931	HE1	PHE A 124	6.995	-1.543	-13.859	1.00	0.00
ATOM	1932	HE2	PHE A 124	3.995	1.421	-13.230	1.00	0.00
ATOM	1933	HZ	PHE A 124	6.047	0.672	-14.369	1.00	0.00
ATOM	1934	N	VAL A 125	3.944	0.343	-9.326	1.00	0.00
ATOM	1935	CA	VAL A 125	3.421	1.689	-9.129	1.00	0.00
ATOM	1936	C	VAL A 125	3.986	2.653	-10.167	1.00	0.00
ATOM	1937	O	VAL A 125	5.172	2.606	-10.492	1.00	0.00
ATOM	1938	CB	VAL A 125	3.744	2.215	-7.715	1.00	0.00
ATOM	1939	CG1	VAL A 125	5.249	2.337	-7.514	1.00	0.00
ATOM	1940	CG2	VAL A 125	3.054	3.548	-7.470	1.00	0.00
ATOM	1941	H	VAL A 125	4.865	0.229	-9.641	1.00	0.00
ATOM	1942	HA	VAL A 125	2.348	1.646	-9.237	1.00	0.00
ATOM	1943	HB	VAL A 125	3.367	1.503	-6.996	1.00	0.00
ATOM	1944	1HG1	VAL A 125	5.762	1.846	-8.327	1.00	0.00

ATOM	1945	2HG1	VAL	A	125	5.525	1.872	-6.579	1.00	0.00
ATOM	1946	3HG1	VAL	A	125	5.525	3.382	-7.491	1.00	0.00
ATOM	1947	1HG2	VAL	A	125	2.889	4.048	-8.413	1.00	0.00
ATOM	1948	2HG2	VAL	A	125	3.675	4.165	-6.839	1.00	0.00
ATOM	1949	3HG2	VAL	A	125	2.104	3.378	-6.983	1.00	0.00
ATOM	1950	N	ASP	A	126	3.128	3.527	-10.685	1.00	0.00
ATOM	1951	CA	ASP	A	126	3.541	4.501	-11.688	1.00	0.00
ATOM	1952	C	ASP	A	126	3.223	5.921	-11.229	1.00	0.00
ATOM	1953	O	ASP	A	126	2.813	6.139	-10.090	1.00	0.00
ATOM	1954	CB	ASP	A	126	2.850	4.214	-13.023	1.00	0.00
ATOM	1955	CG	ASP	A	126	3.804	4.310	-14.198	1.00	0.00
ATOM	1956	OD1	ASP	A	126	3.363	4.739	-15.286	1.00	0.00
ATOM	1957	OD2	ASP	A	126	4.990	3.956	-14.031	1.00	0.00
ATOM	1958	H	ASP	A	126	2.195	3.514	-10.386	1.00	0.00
ATOM	1959	HA	ASP	A	126	4.609	4.410	-11.819	1.00	0.00
ATOM	1960	1HB	ASP	A	126	2.437	3.216	-13.000	1.00	0.00
ATOM	1961	2HB	ASP	A	126	2.052	4.927	-13.170	1.00	0.00
ATOM	1962	N	SER	A	127	3.415	6.884	-12.125	1.00	0.00
ATOM	1963	CA	SER	A	127	3.150	8.283	-11.812	1.00	0.00
ATOM	1964	C	SER	A	127	1.799	8.719	-12.371	1.00	0.00
ATOM	1965	O	SER	A	127	1.722	9.304	-13.451	1.00	0.00
ATOM	1966	CB	SER	A	127	4.259	9.174	-12.374	1.00	0.00
ATOM	1967	OG	SER	A	127	4.866	8.578	-13.508	1.00	0.00
ATOM	1968	H	SER	A	127	3.745	6.648	-13.017	1.00	0.00
ATOM	1969	HA	SER	A	127	3.130	8.384	-10.737	1.00	0.00
ATOM	1970	1HB	SER	A	127	3.842	10.126	-12.664	1.00	0.00
ATOM	1971	2HB	SER	A	127	5.013	9.326	-11.616	1.00	0.00



ATOM 1972	HG	SER A 127	5.677	8.138	-13.243	1.00	0.00
ATOM 1973	N	GLY A 128	0.736	8.432	-11.627	1.00	0.00
ATOM 1974	CA	GLY A 128	-0.598	8.801	-12.062	1.00	0.00
ATOM 1975	C	GLY A 128	-0.966	8.185	-13.399	1.00	0.00
ATOM 1976	O	GLY A 128	-0.196	7.403	-13.957	1.00	0.00
ATOM 1977	H	GLY A 128	0.859	7.965	-10.774	1.00	0.00
ATOM 1978	1HA	GLY A 128	-1.310	8.475	-11.320	1.00	0.00
ATOM 1979	2HA	GLY A 128	-0.652	9.877	-12.147	1.00	0.00
ATOM 1980	N	PRO A 129	-2.150	8.521	-13.941	1.00	0.00
ATOM 1981	CA	PRO A 129	-2.610	7.988	-15.225	1.00	0.00
ATOM 1982	C	PRO A 129	-1.925	8.655	-16.412	1.00	0.00
ATOM 1983	O	PRO A 129	-1.008	9.458	-16.243	1.00	0.00
ATOM 1984	CB	PRO A 129	-4.103	8.312	-15.217	1.00	0.00
ATOM 1985	CG	PRO A 129	-4.216	9.540	-14.382	1.00	0.00
ATOM 1986	CD	PRO A 129	-3.132	9.446	-13.342	1.00	0.00
ATOM 1987	HA	PRO A 129	-2.471	6.918	-15.282	1.00	0.00
ATOM 1988	1HB	PRO A 129	-4.442	8.485	-16.228	1.00	0.00
ATOM 1989	2HB	PRO A 129	-4.652	7.489	-14.783	1.00	0.00
ATOM 1990	1HG	PRO A 129	-4.069	10.415	-14.998	1.00	0.00
ATOM 1991	2HG	PRO A 129	-5.187	9.574	-13.909	1.00	0.00
ATOM 1992	1HD	PRO A 129	-2.690	10.416	-13.170	1.00	0.00
ATOM 1993	2HD	PRO A 129	-3.526	9.042	-12.421	1.00	0.00
ATOM 1994	N	SER A 130	-2.378	8.316	-17.616	1.00	0.00
ATOM 1995	CA	SER A 130	-1.811	8.881	-18.835	1.00	0.00
ATOM 1996	C	SER A 130	-0.317	8.580	-18.940	1.00	0.00
ATOM 1997	O	SER A 130	0.416	9.270	-19.648	1.00	0.00
ATOM 1998	CB	SER A 130	-2.041	10.392	-18.875	1.00	0.00

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ATOM	1999	OG	SER A 130	-2.051	10.872	-20.209	1.00	0.00
ATOM	2000	H	SER A 130	-3.111	7.670	-17.685	1.00	0.00
ATOM	2001	HA	SER A 130	-2.315	8.428	-19.674	1.00	0.00
ATOM	2002	1HB	SER A 130	-2.990	10.623	-18.416	1.00	0.00
ATOM	2003	2HB	SER A 130	-1.249	10.890	-18.333	1.00	0.00
ATOM	2004	HG	SER A 130	-1.782	11.794	-20.220	1.00	0.00
ATOM	2005	N	SER A 131	0.130	7.546	-18.231	1.00	0.00
ATOM	2006	CA	SER A 131	1.536	7.155	-18.248	1.00	0.00
ATOM	2007	C	SER A 131	2.440	8.337	-17.910	1.00	0.00
ATOM	2008	O	SER A 131	3.584	8.405	-18.359	1.00	0.00
ATOM	2009	CB	SER A 131	1.912	6.588	-19.619	1.00	0.00
ATOM	2010	OG	SER A 131	1.033	5.542	-19.997	1.00	0.00
ATOM	2011	H	SER A 131	-0.501	7.031	-17.685	1.00	0.00
ATOM	2012	HA	SER A 131	1.675	6.387	-17.502	1.00	0.00
ATOM	2013	1HB	SER A 131	1.856	7.373	-20.358	1.00	0.00
ATOM	2014	2HB	SER A 131	2.919	6.200	-19.582	1.00	0.00
ATOM	2015	HG	SER A 131	0.128	5.802	-19.811	1.00	0.00
ATOM	2016	N	GLY A 132	1.919	9.268	-17.116	1.00	0.00
ATOM	2017	CA	GLY A 132	2.694	10.433	-16.733	1.00	0.00
ATOM	2018	C	GLY A 132	1.920	11.371	-15.826	1.00	0.00
ATOM	2019	H	GLY A 132	1.002	9.162	-16.788	1.00	0.00
ATOM	2020	1HA	GLY A 132	3.584	10.106	-16.216	1.00	0.00
ATOM	2021	2HA	GLY A 132	2.982	10.969	-17.624	1.00	0.00
TER	2022		GLY A 132					

ENDMDL

Three-Dimensional Structure Coordinate 16

ATOM 1	N	GLY A	1	-14.978	17.686	-16.755	1.00	0.00
ATOM 2	CA	GLY A	1	-13.897	17.367	-15.783	1.00	0.00
ATOM 3	C	GLY A	1	-14.438	16.900	-14.446	1.00	0.00
ATOM 4	O	GLY A	1	-14.967	17.696	-13.670	1.00	0.00
ATOM 5	1H	GLY A	1	-15.287	16.820	-17.242	1.00	0.00
ATOM 6	2H	GLY A	1	-14.633	18.364	-17.464	1.00	0.00
ATOM 7	3H	GLY A	1	-15.792	18.102	-16.261	1.00	0.00
ATOM 8	1HA	GLY A	1	-13.273	16.590	-16.197	1.00	0.00
ATOM 9	2HA	GLY A	1	-13.296	18.251	-15.627	1.00	0.00
ATOM 10	N	SER A	2	-14.306	15.605	-14.176	1.00	0.00
ATOM 11	CA	SER A	2	-14.786	15.033	-12.924	1.00	0.00
ATOM 12	C	SER A	2	-13.756	15.217	-11.812	1.00	0.00
ATOM 13	O	SER A	2	-13.257	14.244	-11.246	1.00	0.00
ATOM 14	CB	SER A	2	-15.102	13.547	-13.107	1.00	0.00
ATOM 15	OG	SER A	2	-13.936	12.815	-13.448	1.00	0.00
ATOM 16	H	SER A	2	-13.876	15.021	-14.834	1.00	0.00
ATOM 17	HA	SER A	2	-15.692	15.553	-12.648	1.00	0.00
ATOM 18	1HB	SER A	2	-15.502	13.150	-12.186	1.00	0.00
ATOM 19	2HB	SER A	2	-15.830	13.430	-13.896	1.00	0.00
ATOM 20	HG	SER A	2	-14.006	11.922	-13.102	1.00	0.00
ATOM 21	N	SER A	3	-13.444	16.472	-11.505	1.00	0.00
ATOM 22	CA	SER A	3	-12.475	16.785	-10.461	1.00	0.00
ATOM 23	C	SER A	3	-12.475	18.277	-10.148	1.00	0.00
ATOM 24	O	SER A	3	-12.512	18.677	-8.984	1.00	0.00
ATOM 25	CB	SER A	3	-11.074	16.342	-10.888	1.00	0.00
ATOM 26	OG	SER A	3	-10.106	16.707	-9.919	1.00	0.00
ATOM 27	H	SER A	3	-13.876	17.205	-11.991	1.00	0.00

ATOM 28	HA	SER A	3	-12.759	16.242	-9.572	1.00	0.00
ATOM 29	1HB	SER A	3	-11.058	15.269	-11.008	1.00	0.00
ATOM 30	2HB	SER A	3	-10.821	16.812	-11.827	1.00	0.00
ATOM 31	HG	SER A	3	-10.413	16.447	-9.047	1.00	0.00
ATOM 32	N	GLY A	4	-12.435	19.096	-11.193	1.00	0.00
ATOM 33	CA	GLY A	4	-12.432	20.535	-11.008	1.00	0.00
ATOM 34	C	GLY A	4	-11.246	21.013	-10.195	1.00	0.00
ATOM 35	O	GLY A	4	-11.414	21.652	-9.155	1.00	0.00
ATOM 36	H	GLY A	4	-12.407	18.720	-12.098	1.00	0.00
ATOM 37	1HA	GLY A	4	-12.405	21.011	-11.977	1.00	0.00
ATOM 38	2HA	GLY A	4	-13.342	20.824	-10.502	1.00	0.00
ATOM 39	N	SER A	5	-10.043	20.704	-10.667	1.00	0.00
ATOM 40	CA	SER A	5	-8.823	21.108	-9.977	1.00	0.00
ATOM 41	C	SER A	5	-8.640	22.621	-10.033	1.00	0.00
ATOM 42	O	SER A	5	-8.202	23.165	-11.048	1.00	0.00
ATOM 43	CB	SER A	5	-7.609	20.411	-10.594	1.00	0.00
ATOM 44	OG	SER A	5	-6.519	20.388	-9.689	1.00	0.00
ATOM 45	H	SER A	5	-9.973	20.194	-11.501	1.00	0.00
ATOM 46	HA	SER A	5	-8.913	20.806	-8.944	1.00	0.00
ATOM 47	1HB	SER A	5	-7.870	19.395	-10.849	1.00	0.00
ATOM 48	2HB	SER A	5	-7.309	20.940	-11.487	1.00	0.00
ATOM 49	HG	SER A	5	-6.156	21.273	-9.602	1.00	0.00
ATOM 50	N	SER A	6	-8.979	23.294	-8.939	1.00	0.00
ATOM 51	CA	SER A	6	-8.852	24.745	-8.864	1.00	0.00
ATOM 52	C	SER A	6	-7.882	25.150	-7.759	1.00	0.00
ATOM 53	O	SER A	6	-8.043	26.195	-7.130	1.00	0.00
ATOM 54	CB	SER A	6	-10.219	25.385	-8.618	1.00	0.00

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ATOM 55	OG	SER A	6	-11.264	24.562	-9.109	1.00	0.00
ATOM 56	H	SER A	6	-9.322	22.804	-8.163	1.00	0.00
ATOM 57	HA	SER A	6	-8.466	25.095	-9.811	1.00	0.00
ATOM 58	1HB	SER A	6	-10.361	25.530	-7.557	1.00	0.00
ATOM 59	2HB	SER A	6	-10.263	26.341	-9.121	1.00	0.00
ATOM 60	HG	SER A	6	-11.076	24.314	-10.016	1.00	0.00
ATOM 61	N	GLY A	7	-6.874	24.315	-7.529	1.00	0.00
ATOM 62	CA	GLY A	7	-5.892	24.603	-6.499	1.00	0.00
ATOM 63	C	GLY A	7	-4.491	24.187	-6.902	1.00	0.00
ATOM 64	O	GLY A	7	-4.165	23.000	-6.903	1.00	0.00
ATOM 65	H	GLY A	7	-6.795	23.496	-8.062	1.00	0.00
ATOM 66	1HA	GLY A	7	-5.897	25.664	-6.300	1.00	0.00
ATOM 67	2HA	GLY A	7	-6.167	24.076	-5.598	1.00	0.00
ATOM 68	N	SER A	8	-3.661	25.166	-7.246	1.00	0.00
ATOM 69	CA	SER A	8	-2.287	24.895	-7.654	1.00	0.00
ATOM 70	C	SER A	8	-1.458	24.393	-6.477	1.00	0.00
ATOM 71	O	SER A	8	-0.735	25.160	-5.841	1.00	0.00
ATOM 72	CB	SER A	8	-1.649	26.156	-8.241	1.00	0.00
ATOM 73	OG	SER A	8	-1.809	26.200	-9.649	1.00	0.00
ATOM 74	H	SER A	8	-3.979	26.093	-7.226	1.00	0.00
ATOM 75	HA	SER A	8	-2.313	24.128	-8.414	1.00	0.00
ATOM 76	1HB	SER A	8	-2.119	27.028	-7.811	1.00	0.00
ATOM 77	2HB	SER A	8	-0.595	26.164	-8.011	1.00	0.00
ATOM 78	HG	SER A	8	-2.708	25.950	-9.877	1.00	0.00
ATOM 79	N	SER A	9	-1.568	23.100	-6.192	1.00	0.00
ATOM 80	CA	SER A	9	-0.827	22.494	-5.091	1.00	0.00
ATOM 81	C	SER A	9	0.447	21.821	-5.596	1.00	0.00

ATOM 82	O	SER A	9	1.426	21.694	-4.861	1.00	0.00
ATOM 83	CB	SER A	9	-1.704	21.475	-4.359	1.00	0.00
ATOM 84	OG	SER A	9	-2.023	21.923	-3.053	1.00	0.00
ATOM 85	H	SER A	9	-2.160	22.539	-6.735	1.00	0.00
ATOM 86	HA	SER A	9	-0.555	23.280	-4.403	1.00	0.00
ATOM 87	1HB	SER A	9	-2.622	21.332	-4.910	1.00	0.00
ATOM 88	2HB	SER A	9	-1.179	20.534	-4.286	1.00	0.00
ATOM 89	HG	SER A	9	-1.225	22.228	-2.615	1.00	0.00
ATOM 90	N	SER A	10	0.426	21.391	-6.855	1.00	0.00
ATOM 91	CA	SER A	10	1.579	20.730	-7.458	1.00	0.00
ATOM 92	C	SER A	10	1.853	19.390	-6.784	1.00	0.00
ATOM 93	O	SER A	10	3.005	18.997	-6.605	1.00	0.00
ATOM 94	CB	SER A	10	2.817	21.626	-7.365	1.00	0.00
ATOM 95	OG	SER A	10	3.539	21.628	-8.584	1.00	0.00
ATOM 96	H	SER A	10	-0.383	21.520	-7.391	1.00	0.00
ATOM 97	HA	SER A	10	1.351	20.555	-8.499	1.00	0.00
ATOM 98	1HB	SER A	10	2.511	22.638	-7.141	1.00	0.00
ATOM 99	2HB	SER A	10	3.464	21.264	-6.579	1.00	0.00
ATOM 100	HG	SER A	10	4.470	21.481	-8.406	1.00	0.00
ATOM 101	N	SER A	11	0.784	18.692	-6.413	1.00	0.00
ATOM 102	CA	SER A	11	0.908	17.394	-5.759	1.00	0.00
ATOM 103	C	SER A	11	1.278	16.312	-6.768	1.00	0.00
ATOM 104	O	SER A	11	1.532	16.600	-7.937	1.00	0.00
ATOM 105	CB	SER A	11	-0.399	17.026	-5.057	1.00	0.00
ATOM 106	OG	SER A	11	-0.155	16.247	-3.899	1.00	0.00
ATOM 107	H	SER A	11	-0.108	19.058	-6.583	1.00	0.00
ATOM 108	HA	SER A	11	1.694	17.467	-5.023	1.00	0.00

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ATOM 109	1HB	SER A	11	-0.915	17.929	-4.764	1.00	0.00
ATOM 110	2HB	SER A	11	-1.022	16.459	-5.732	1.00	0.00
ATOM 111	N	GLN A	12	1.309	15.065	-6.307	1.00	0.00
ATOM 112	CA	GLN A	12	1.650	13.941	-7.171	1.00	0.00
ATOM 113	C	GLN A	12	0.862	12.695	-6.780	1.00	0.00
ATOM 114	O	GLN A	12	0.762	12.353	-5.601	1.00	0.00
ATOM 115	CB	GLN A	12	3.151	13.652	-7.101	1.00	0.00
ATOM 116	CG	GLN A	12	3.714	13.688	-5.691	1.00	0.00
ATOM 117	CD	GLN A	12	5.226	13.799	-5.670	1.00	0.00
ATOM 118	OE1	GLN A	12	5.911	12.986	-5.049	1.00	0.00
ATOM 119	NE2	GLN A	12	5.755	14.809	-6.351	1.00	0.00
ATOM 120	H	GLN A	12	1.097	14.898	-5.365	1.00	0.00
ATOM 121	HA	GLN A	12	1.391	14.212	-8.183	1.00	0.00
ATOM 122	1HB	GLN A	12	3.336	12.673	-7.516	1.00	0.00
ATOM 123	2HB	GLN A	12	3.674	14.388	-7.694	1.00	0.00
ATOM 124	1HG	GLN A	12	3.300	14.539	-5.173	1.00	0.00
ATOM 125	2HG	GLN A	12	3.427	12.781	-5.180	1.00	0.00
ATOM 126	1HE2	GLN A	12	5.149	15.418	-6.822	1.00	0.00
ATOM 127	2HE2	GLN A	12	6.731	14.904	-6.354	1.00	0.00
ATOM 128	N	HIS A	13	0.303	12.020	-7.780	1.00	0.00
ATOM 129	CA	HIS A	13	-0.477	10.809	-7.548	1.00	0.00
ATOM 130	C	HIS A	13	0.209	9.596	-8.166	1.00	0.00
ATOM 131	O	HIS A	13	0.416	9.538	-9.379	1.00	0.00
ATOM 132	CB	HIS A	13	-1.883	10.964	-8.131	1.00	0.00
ATOM 133	CG	HIS A	13	-2.744	11.931	-7.377	1.00	0.00
ATOM 134	ND1	HIS A	13	-4.097	12.071	-7.606	1.00	0.00
ATOM 135	CD2	HIS A	13	-2.437	12.809	-6.393	1.00	0.00

ATOM 136	CE1	HIS	A	13	-4.584	12.994	-6.797	1.00	0.00
ATOM 137	NE2	HIS	A	13	-3.599	13.456	-6.051	1.00	0.00
ATOM 138	H	HIS	A	13	0.419	12.343	-8.698	1.00	0.00
ATOM 139	HA	HIS	A	13	-0.552	10.662	-6.481	1.00	0.00
ATOM 140	1HB	HIS	A	13	-1.807	11.313	-9.149	1.00	0.00
ATOM 141	2HB	HIS	A	13	-2.376	10.002	-8.121	1.00	0.00
ATOM 142	HD1	HIS	A	13	-4.621	11.568	-8.265	1.00	0.00
ATOM 143	HD2	HIS	A	13	-1.462	12.971	-5.958	1.00	0.00
ATOM 144	HE1	HIS	A	13	-5.615	13.314	-6.751	1.00	0.00
ATOM 145	HE2	HIS	A	13	-3.672	14.196	-5.413	1.00	0.00
ATOM 146	N	PHE	A	14	0.560	8.627	-7.327	1.00	0.00
ATOM 147	CA	PHE	A	14	1.224	7.416	-7.795	1.00	0.00
ATOM 148	C	PHE	A	14	0.271	6.225	-7.756	1.00	0.00
ATOM 149	O	PHE	A	14	-0.090	5.740	-6.684	1.00	0.00
ATOM 150	CB	PHE	A	14	2.461	7.125	-6.944	1.00	0.00
ATOM 151	CG	PHE	A	14	3.524	8.181	-7.054	1.00	0.00
ATOM 152	CD1	PHE	A	14	3.746	9.071	-6.016	1.00	0.00
ATOM 153	CD2	PHE	A	14	4.303	8.283	-8.196	1.00	0.00
ATOM 154	CE1	PHE	A	14	4.724	10.043	-6.114	1.00	0.00
ATOM 155	CE2	PHE	A	14	5.282	9.252	-8.300	1.00	0.00
ATOM 156	CZ	PHE	A	14	5.493	10.133	-7.258	1.00	0.00
ATOM 157	H	PHE	A	14	0.370	8.728	-6.371	1.00	0.00
ATOM 158	HA	PHE	A	14	1.531	7.581	-8.817	1.00	0.00
ATOM 159	1HB	PHE	A	14	2.168	7.057	-5.908	1.00	0.00
ATOM 160	2HB	PHE	A	14	2.891	6.185	-7.255	1.00	0.00
ATOM 161	HD1	PHE	A	14	3.145	9.001	-5.121	1.00	0.00
ATOM 162	HD2	PHE	A	14	4.139	7.594	-9.012	1.00	0.00



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ATOM 163	HE1	PHE	A	14	4.887	10.731	-5.297	1.00	0.00
ATOM 164	HE2	PHE	A	14	5.882	9.321	-9.196	1.00	0.00
ATOM 165	HZ	PHE	A	14	6.257	10.892	-7.337	1.00	0.00
ATOM 166	N	ASN	A	15	-0.135	5.760	-8.934	1.00	0.00
ATOM 167	CA	ASN	A	15	-1.049	4.628	-9.038	1.00	0.00
ATOM 168	C	ASN	A	15	-0.474	3.392	-8.354	1.00	0.00
ATOM 169	O	ASN	A	15	0.448	2.760	-8.867	1.00	0.00
ATOM 170	CB	ASN	A	15	-1.347	4.322	-10.508	1.00	0.00
ATOM 171	CG	ASN	A	15	-2.834	4.235	-10.791	1.00	0.00
ATOM 172	OD1	ASN	A	15	-3.604	5.113	-10.402	1.00	0.00
ATOM 173	ND2	ASN	A	15	-3.245	3.171	-11.472	1.00	0.00
ATOM 174	H	ASN	A	15	0.187	6.191	-9.753	1.00	0.00
ATOM 175	HA	ASN	A	15	-1.969	4.900	-8.545	1.00	0.00
ATOM 176	1HB	ASN	A	15	-0.928	5.104	-11.124	1.00	0.00
ATOM 177	2HB	ASN	A	15	-0.893	3.379	-10.774	1.00	0.00
ATOM 178	1HD2	ASN	A	15	-2.577	2.512	-11.749	1.00	0.00
ATOM 179	2HD2	ASN	A	15	-4.202	3.090	-11.668	1.00	0.00
ATOM 180	N	LEU	A	16	-1.028	3.051	-7.195	1.00	0.00
ATOM 181	CA	LEU	A	16	-0.574	1.888	-6.443	1.00	0.00
ATOM 182	C	LEU	A	16	-1.335	0.639	-6.875	1.00	0.00
ATOM 183	O	LEU	A	16	-2.566	0.620	-6.866	1.00	0.00
ATOM 184	CB	LEU	A	16	-0.762	2.122	-4.942	1.00	0.00
ATOM 185	CG	LEU	A	16	-0.097	1.083	-4.037	1.00	0.00
ATOM 186	CD1	LEU	A	16	1.419	1.190	-4.123	1.00	0.00
ATOM 187	CD2	LEU	A	16	-0.568	1.253	-2.600	1.00	0.00
ATOM 188	H	LEU	A	16	-1.764	3.593	-6.840	1.00	0.00
ATOM 189	HA	LEU	A	16	0.476	1.747	-6.649	1.00	0.00

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ATOM 190	1HB	LEU	A	16	-0.358	3.093	-4.697	1.00	0.00
ATOM 191	2HB	LEU	A	16	-1.820	2.127	-4.730	1.00	0.00
ATOM 192	HG	LEU	A	16	-0.381	0.094	-4.368	1.00	0.00
ATOM 193	1HD1	LEU	A	16	1.687	2.099	-4.642	1.00	0.00
ATOM 194	2HD1	LEU	A	16	1.809	0.340	-4.661	1.00	0.00
ATOM 195	3HD1	LEU	A	16	1.836	1.208	-3.127	1.00	0.00
ATOM 196	1HD2	LEU	A	16	0.117	1.899	-2.071	1.00	0.00
ATOM 197	2HD2	LEU	A	16	-0.600	0.288	-2.116	1.00	0.00
ATOM 198	3HD2	LEU	A	16	-1.554	1.692	-2.594	1.00	0.00
ATOM 199	N	ASN	A	17	-0.599	-0.399	-7.257	1.00	0.00
ATOM 200	CA	ASN	A	17	-1.215	-1.644	-7.696	1.00	0.00
ATOM 201	C	ASN	A	17	-0.399	-2.855	-7.258	1.00	0.00
ATOM 202	O	ASN	A	17	0.832	-2.835	-7.292	1.00	0.00
ATOM 203	CB	ASN	A	17	-1.374	-1.645	-9.217	1.00	0.00
ATOM 204	CG	ASN	A	17	-2.399	-0.634	-9.693	1.00	0.00
ATOM 205	OD1	ASN	A	17	-3.564	-0.969	-9.910	1.00	0.00
ATOM 206	ND2	ASN	A	17	-1.969	0.611	-9.860	1.00	0.00
ATOM 207	H	ASN	A	17	0.378	-0.324	-7.246	1.00	0.00
ATOM 208	HA	ASN	A	17	-2.193	-1.704	-7.244	1.00	0.00
ATOM 209	1HB	ASN	A	17	-0.424	-1.408	-9.673	1.00	0.00
ATOM 210	2HB	ASN	A	17	-1.687	-2.628	-9.539	1.00	0.00
ATOM 211	1HD2	ASN	A	17	-1.027	0.805	-9.670	1.00	0.00
ATOM 212	2HD2	ASN	A	17	-2.611	1.285	-10.167	1.00	0.00
ATOM 213	N	PHE	A	18	-1.098	-3.911	-6.856	1.00	0.00
ATOM 214	CA	PHE	A	18	-0.452	-5.143	-6.417	1.00	0.00
ATOM 215	C	PHE	A	18	-1.497	-6.195	-6.058	1.00	0.00
ATOM 216	O	PHE	A	18	-2.245	-6.040	-5.092	1.00	0.00

ATOM 217	CB	PHE A	18	0.464	-4.879	-5.220	1.00	0.00
ATOM 218	CG	PHE A	18	-0.264	-4.431	-3.985	1.00	0.00
ATOM 219	CD1	PHE A	18	-0.446	-5.299	-2.918	1.00	0.00
ATOM 220	CD2	PHE A	18	-0.765	-3.143	-3.889	1.00	0.00
ATOM 221	CE1	PHE A	18	-1.114	-4.888	-1.781	1.00	0.00
ATOM 222	CE2	PHE A	18	-1.433	-2.727	-2.753	1.00	0.00
ATOM 223	CZ	PHE A	18	-1.608	-3.601	-1.697	1.00	0.00
ATOM 224	H	PHE A	18	-2.076	-3.862	-6.859	1.00	0.00
ATOM 225	HA	PHE A	18	0.143	-5.514	-7.238	1.00	0.00
ATOM 226	1HB	PHE A	18	0.998	-5.785	-4.978	1.00	0.00
ATOM 227	2HB	PHE A	18	1.174	-4.109	-5.484	1.00	0.00
ATOM 228	HD1	PHE A	18	-0.059	-6.305	-2.981	1.00	0.00
ATOM 229	HD2	PHE A	18	-0.630	-2.459	-4.713	1.00	0.00
ATOM 230	HE1	PHE A	18	-1.249	-5.574	-0.957	1.00	0.00
ATOM 231	HE2	PHE A	18	-1.819	-1.720	-2.690	1.00	0.00
ATOM 232	HZ	PHE A	18	-2.130	-3.279	-0.808	1.00	0.00
ATOM 233	N	THR A	19	-1.548	-7.262	-6.848	1.00	0.00
ATOM 234	CA	THR A	19	-2.505	-8.338	-6.623	1.00	0.00
ATOM 235	C	THR A	19	-2.193	-9.095	-5.336	1.00	0.00
ATOM 236	O	THR A	19	-1.045	-9.456	-5.078	1.00	0.00
ATOM 237	CB	THR A	19	-2.504	-9.305	-7.807	1.00	0.00
ATOM 238	OG1	THR A	19	-2.656	-8.604	-9.028	1.00	0.00
ATOM 239	CG2	THR A	19	-3.604	-10.343	-7.733	1.00	0.00
ATOM 240	H	THR A	19	-0.929	-7.324	-7.606	1.00	0.00
ATOM 241	HA	THR A	19	-3.486	-7.894	-6.535	1.00	0.00
ATOM 242	HB	THR A	19	-1.558	-9.828	-7.832	1.00	0.00
ATOM 243	HG1	THR A	19	-3.514	-8.173	-9.046	1.00	0.00

ATOM 244	1HG2	THR	A	19	-4.083	-10.430	-8.698	1.00	0.00
ATOM 245	2HG2	THR	A	19	-4.333	-10.043	-6.994	1.00	0.00
ATOM 246	3HG2	THR	A	19	-3.181	-11.297	-7.455	1.00	0.00
ATOM 247	N	ILE	A	20	-3.226	-9.337	-4.536	1.00	0.00
ATOM 248	CA	ILE	A	20	-3.069	-10.055	-3.278	1.00	0.00
ATOM 249	C	ILE	A	20	-3.554	-11.495	-3.409	1.00	0.00
ATOM 250	O	ILE	A	20	-4.754	-11.763	-3.353	1.00	0.00
ATOM 251	CB	ILE	A	20	-3.838	-9.367	-2.133	1.00	0.00
ATOM 252	CG1	ILE	A	20	-3.505	-7.875	-2.090	1.00	0.00
ATOM 253	CG2	ILE	A	20	-3.513	-10.026	-0.802	1.00	0.00
ATOM 254	CD1	ILE	A	20	-4.514	-7.053	-1.318	1.00	0.00
ATOM 255	H	ILE	A	20	-4.118	-9.026	-4.799	1.00	0.00
ATOM 256	HA	ILE	A	20	-2.018	-10.062	-3.025	1.00	0.00
ATOM 257	HB	ILE	A	20	-4.895	-9.488	-2.317	1.00	0.00
ATOM 258	1HG1	ILE	A	20	-2.542	-7.741	-1.623	1.00	0.00
ATOM 259	2HG1	ILE	A	20	-3.467	-7.491	-3.099	1.00	0.00
ATOM 260	1HG2	ILE	A	20	-4.417	-10.130	-0.221	1.00	0.00
ATOM 261	2HG2	ILE	A	20	-2.807	-9.414	-0.260	1.00	0.00
ATOM 262	3HG2	ILE	A	20	-3.084	-11.002	-0.978	1.00	0.00
ATOM 263	1HD1	ILE	A	20	-4.847	-7.611	-0.455	1.00	0.00
ATOM 264	2HD1	ILE	A	20	-5.361	-6.832	-1.952	1.00	0.00
ATOM 265	3HD1	ILE	A	20	-4.056	-6.130	-0.995	1.00	0.00
ATOM 266	N	THR	A	21	-2.614	-12.419	-3.584	1.00	0.00
ATOM 267	CA	THR	A	21	-2.943	-13.834	-3.726	1.00	0.00
ATOM 268	C	THR	A	21	-3.816	-14.317	-2.572	1.00	0.00
ATOM 269	O	THR	A	21	-4.609	-15.245	-2.727	1.00	0.00
ATOM 270	CB	THR	A	21	-1.664	-14.670	-3.798	1.00	0.00

ATOM 271	OG1	THR	A	21	-0.988	-14.658	-2.554	1.00	0.00
ATOM 272	CG2	THR	A	21	-0.693	-14.190	-4.854	1.00	0.00
ATOM 273	H	THR	A	21	-1.674	-12.142	-3.621	1.00	0.00
ATOM 274	HA	THR	A	21	-3.491	-13.954	-4.650	1.00	0.00
ATOM 275	HB	THR	A	21	-1.928	-15.692	-4.031	1.00	0.00
ATOM 276	HG1	THR	A	21	-0.877	-15.558	-2.240	1.00	0.00
ATOM 277	1HG2	THR	A	21	-1.144	-13.388	-5.421	1.00	0.00
ATOM 278	2HG2	THR	A	21	-0.450	-15.007	-5.517	1.00	0.00
ATOM 279	3HG2	THR	A	21	0.208	-13.832	-4.378	1.00	0.00
ATOM 280	N	ASN	A	22	-3.664	-13.684	-1.413	1.00	0.00
ATOM 281	CA	ASN	A	22	-4.439	-14.051	-0.234	1.00	0.00
ATOM 282	C	ASN	A	22	-5.687	-13.181	-0.110	1.00	0.00
ATOM 283	O	ASN	A	22	-6.018	-12.701	0.975	1.00	0.00
ATOM 284	CB	ASN	A	22	-3.579	-13.923	1.025	1.00	0.00
ATOM 285	CG	ASN	A	22	-3.660	-15.153	1.908	1.00	0.00
ATOM 286	OD1	ASN	A	22	-3.810	-16.273	1.418	1.00	0.00
ATOM 287	ND2	ASN	A	22	-3.562	-14.951	3.216	1.00	0.00
ATOM 288	H	ASN	A	22	-3.015	-12.951	-1.350	1.00	0.00
ATOM 289	HA	ASN	A	22	-4.744	-15.081	-0.347	1.00	0.00
ATOM 290	1HB	ASN	A	22	-2.549	-13.778	0.737	1.00	0.00
ATOM 291	2HB	ASN	A	22	-3.911	-13.069	1.598	1.00	0.00
ATOM 292	1HD2	ASN	A	22	-3.444	-14.031	3.535	1.00	0.00
ATOM 293	2HD2	ASN	A	22	-3.612	-15.729	3.810	1.00	0.00
ATOM 294	N	LEU	A	23	-6.379	-12.983	-1.228	1.00	0.00
ATOM 295	CA	LEU	A	23	-7.590	-12.174	-1.246	1.00	0.00
ATOM 296	C	LEU	A	23	-8.533	-12.631	-2.358	1.00	0.00
ATOM 297	O	LEU	A	23	-8.437	-12.168	-3.494	1.00	0.00

ATOM 298	CB	LEU	A	23	-7.239	-10.697	-1.439	1.00	0.00
ATOM 299	CG	LEU	A	23	-8.249	-9.709	-0.853	1.00	0.00
ATOM 300	CD1	LEU	A	23	-9.578	-9.807	-1.586	1.00	0.00
ATOM 301	CD2	LEU	A	23	-8.439	-9.960	0.635	1.00	0.00
ATOM 302	H	LEU	A	23	-6.066	-13.393	-2.062	1.00	0.00
ATOM 303	HA	LEU	A	23	-8.085	-12.296	-0.295	1.00	0.00
ATOM 304	1HB	LEU	A	23	-6.279	-10.515	-0.976	1.00	0.00
ATOM 305	2HB	LEU	A	23	-7.152	-10.503	-2.497	1.00	0.00
ATOM 306	HG	LEU	A	23	-7.873	-8.703	-0.978	1.00	0.00
ATOM 307	1HD1	LEU	A	23	-10.259	-10.421	-1.016	1.00	0.00
ATOM 308	2HD1	LEU	A	23	-9.422	-10.250	-2.559	1.00	0.00
ATOM 309	3HD1	LEU	A	23	-9.998	-8.819	-1.705	1.00	0.00
ATOM 310	1HD2	LEU	A	23	-8.929	-9.110	1.084	1.00	0.00
ATOM 311	2HD2	LEU	A	23	-7.477	-10.109	1.101	1.00	0.00
ATOM 312	3HD2	LEU	A	23	-9.048	-10.841	0.776	1.00	0.00
ATOM 313	N	PRO	A	24	-9.462	-13.553	-2.043	1.00	0.00
ATOM 314	CA	PRO	A	24	-10.421	-14.072	-3.024	1.00	0.00
ATOM 315	C	PRO	A	24	-11.451	-13.025	-3.438	1.00	0.00
ATOM 316	O	PRO	A	24	-11.877	-12.204	-2.627	1.00	0.00
ATOM 317	CB	PRO	A	24	-11.101	-15.225	-2.282	1.00	0.00
ATOM 318	CG	PRO	A	24	-10.959	-14.883	-0.840	1.00	0.00
ATOM 319	CD	PRO	A	24	-9.647	-14.161	-0.712	1.00	0.00
ATOM 320	HA	PRO	A	24	-9.922	-14.450	-3.904	1.00	0.00
ATOM 321	1HB	PRO	A	24	-12.139	-15.283	-2.577	1.00	0.00
ATOM 322	2HB	PRO	A	24	-10.601	-16.153	-2.519	1.00	0.00
ATOM 323	1HG	PRO	A	24	-11.773	-14.242	-0.533	1.00	0.00
ATOM 324	2HG	PRO	A	24	-10.949	-15.786	-0.248	1.00	0.00

ATOM 325	1HD	PRO	A	24	-9.707	-13.403	0.053	1.00	0.00
ATOM 326	2HD	PRO	A	24	-8.852	-14.858	-0.494	1.00	0.00
ATOM 327	N	TYR	A	25	-11.845	-13.062	-4.707	1.00	0.00
ATOM 328	CA	TYR	A	25	-12.826	-12.117	-5.230	1.00	0.00
ATOM 329	C	TYR	A	25	-14.190	-12.780	-5.387	1.00	0.00
ATOM 330	O	TYR	A	25	-14.308	-13.847	-5.990	1.00	0.00
ATOM 331	CB	TYR	A	25	-12.360	-11.557	-6.575	1.00	0.00
ATOM 332	CG	TYR	A	25	-12.876	-10.165	-6.863	1.00	0.00
ATOM 333	CD1	TYR	A	25	-11.999	-9.106	-7.063	1.00	0.00
ATOM 334	CD2	TYR	A	25	-14.239	-9.910	-6.934	1.00	0.00
ATOM 335	CE1	TYR	A	25	-12.467	-7.833	-7.326	1.00	0.00
ATOM 336	CE2	TYR	A	25	-14.715	-8.639	-7.197	1.00	0.00
ATOM 337	CZ	TYR	A	25	-13.826	-7.605	-7.392	1.00	0.00
ATOM 338	OH	TYR	A	25	-14.296	-6.337	-7.653	1.00	0.00
ATOM 339	H	TYR	A	25	-11.469	-13.741	-5.305	1.00	0.00
ATOM 340	HA	TYR	A	25	-12.913	-11.305	-4.524	1.00	0.00
ATOM 341	1HB	TYR	A	25	-11.281	-11.520	-6.588	1.00	0.00
ATOM 342	2HB	TYR	A	25	-12.702	-12.209	-7.366	1.00	0.00
ATOM 343	HD1	TYR	A	25	-10.936	-9.288	-7.011	1.00	0.00
ATOM 344	HD2	TYR	A	25	-14.934	-10.723	-6.780	1.00	0.00
ATOM 345	HE1	TYR	A	25	-11.770	-7.021	-7.478	1.00	0.00
ATOM 346	HE2	TYR	A	25	-15.780	-8.462	-7.248	1.00	0.00
ATOM 347	HH	TYR	A	25	-14.367	-6.213	-8.602	1.00	0.00
ATOM 348	N	SER	A	26	-15.219	-12.141	-4.841	1.00	0.00
ATOM 349	CA	SER	A	26	-16.576	-12.668	-4.920	1.00	0.00
ATOM 350	C	SER	A	26	-17.555	-11.583	-5.357	1.00	0.00
ATOM 351	O	SER	A	26	-17.168	-10.434	-5.573	1.00	0.00

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ATOM 352	CB	SER A	26	-17.004	-13.242	-3.568	1.00	0.00
ATOM 353	OG	SER A	26	-17.036	-12.234	-2.573	1.00	0.00
ATOM 354	H	SER A	26	-15.062	-11.294	-4.373	1.00	0.00
ATOM 355	HA	SER A	26	-16.582	-13.459	-5.656	1.00	0.00
ATOM 356	1HB	SER A	26	-17.990	-13.673	-3.658	1.00	0.00
ATOM 357	2HB	SER A	26	-16.302	-14.007	-3.267	1.00	0.00
ATOM 358	HG	SER A	26	-17.298	-12.620	-1.734	1.00	0.00
ATOM 359	N	GLN A	27	-18.825	-11.954	-5.484	1.00	0.00
ATOM 360	CA	GLN A	27	-19.859	-11.012	-5.895	1.00	0.00
ATOM 361	C	GLN A	27	-19.955	-9.848	-4.915	1.00	0.00
ATOM 362	O	GLN A	27	-20.303	-8.730	-5.296	1.00	0.00
ATOM 363	CB	GLN A	27	-21.212	-11.720	-5.996	1.00	0.00
ATOM 364	CG	GLN A	27	-21.460	-12.365	-7.350	1.00	0.00
ATOM 365	CD	GLN A	27	-22.791	-11.960	-7.955	1.00	0.00
ATOM 366	OE1	GLN A	27	-23.671	-11.449	-7.262	1.00	0.00
ATOM 367	NE2	GLN A	27	-22.944	-12.188	-9.254	1.00	0.00
ATOM 368	H	GLN A	27	-19.072	-12.885	-5.298	1.00	0.00
ATOM 369	HA	GLN A	27	-19.590	-10.629	-6.867	1.00	0.00
ATOM 370	1HB	GLN A	27	-21.259	-12.491	-5.241	1.00	0.00
ATOM 371	2HB	GLN A	27	-21.996	-11.001	-5.814	1.00	0.00
ATOM 372	1HG	GLN A	27	-20.672	-12.071	-8.026	1.00	0.00
ATOM 373	2HG	GLN A	27	-21.449	-13.439	-7.231	1.00	0.00
ATOM 374	1HE2	GLN A	27	-22.201	-12.599	-9.743	1.00	0.00
ATOM 375	2HE2	GLN A	27	-23.795	-11.935	-9.671	1.00	0.00
ATOM 376	N	ASP A	28	-19.643	-10.117	-3.652	1.00	0.00
ATOM 377	CA	ASP A	28	-19.693	-9.091	-2.617	1.00	0.00
ATOM 378	C	ASP A	28	-18.644	-8.011	-2.869	1.00	0.00



ATOM 379	O	ASP	A	28	-18.940	-6.818	-2.803	1.00	0.00
ATOM 380	CB	ASP	A	28	-19.479	-9.717	-1.239	1.00	0.00
ATOM 381	CG	ASP	A	28	-20.401	-10.894	-0.988	1.00	0.00
ATOM 382	OD1	ASP	A	28	-20.169	-11.968	-1.584	1.00	0.00
ATOM 383	OD2	ASP	A	28	-21.354	-10.743	-0.197	1.00	0.00
ATOM 384	H	ASP	A	28	-19.373	-11.026	-3.409	1.00	0.00
ATOM 385	HA	ASP	A	28	-20.673	-8.637	-2.648	1.00	0.00
ATOM 386	1HB	ASP	A	28	-18.458	-10.061	-1.161	1.00	0.00
ATOM 387	2HB	ASP	A	28	-19.662	-8.972	-0.479	1.00	0.00
ATOM 388	N	ILE	A	29	-17.420	-8.439	-3.162	1.00	0.00
ATOM 389	CA	ILE	A	29	-16.328	-7.509	-3.427	1.00	0.00
ATOM 390	C	ILE	A	29	-16.571	-6.720	-4.713	1.00	0.00
ATOM 391	O	ILE	A	29	-15.905	-5.716	-4.969	1.00	0.00
ATOM 392	CB	ILE	A	29	-14.977	-8.244	-3.534	1.00	0.00
ATOM 393	CG1	ILE	A	29	-14.740	-9.105	-2.291	1.00	0.00
ATOM 394	CG2	ILE	A	29	-13.840	-7.248	-3.720	1.00	0.00
ATOM 395	CD1	ILE	A	29	-14.549	-8.300	-1.022	1.00	0.00
ATOM 396	H	ILE	A	29	-17.247	-9.403	-3.201	1.00	0.00
ATOM 397	HA	ILE	A	29	-16.273	-6.817	-2.599	1.00	0.00
ATOM 398	HB	ILE	A	29	-15.008	-8.883	-4.403	1.00	0.00
ATOM 399	1HG1	ILE	A	29	-15.589	-9.755	-2.144	1.00	0.00
ATOM 400	2HG1	ILE	A	29	-13.853	-9.705	-2.440	1.00	0.00
ATOM 401	1HG2	ILE	A	29	-12.962	-7.603	-3.202	1.00	0.00
ATOM 402	2HG2	ILE	A	29	-14.132	-6.289	-3.318	1.00	0.00
ATOM 403	3HG2	ILE	A	29	-13.620	-7.145	-4.772	1.00	0.00
ATOM 404	1HD1	ILE	A	29	-15.513	-8.010	-0.632	1.00	0.00
ATOM 405	2HD1	ILE	A	29	-13.968	-7.416	-1.240	1.00	0.00

ATOM 406	3HD1	ILE	A	29	-14.030	-8.900	-0.289	1.00	0.00
ATOM 407	N	ALA	A	30	-17.524	-7.177	-5.521	1.00	0.00
ATOM 408	CA	ALA	A	30	-17.845	-6.508	-6.776	1.00	0.00
ATOM 409	C	ALA	A	30	-18.761	-5.311	-6.546	1.00	0.00
ATOM 410	O	ALA	A	30	-18.776	-4.369	-7.340	1.00	0.00
ATOM 411	CB	ALA	A	30	-18.489	-7.490	-7.744	1.00	0.00
ATOM 412	H	ALA	A	30	-18.022	-7.982	-5.269	1.00	0.00
ATOM 413	HA	ALA	A	30	-16.921	-6.163	-7.215	1.00	0.00
ATOM 414	1HB	ALA	A	30	-18.235	-8.499	-7.457	1.00	0.00
ATOM 415	2HB	ALA	A	30	-18.128	-7.298	-8.744	1.00	0.00
ATOM 416	3HB	ALA	A	30	-19.562	-7.368	-7.719	1.00	0.00
ATOM 417	N	GLN	A	31	-19.526	-5.350	-5.458	1.00	0.00
ATOM 418	CA	GLN	A	31	-20.444	-4.265	-5.131	1.00	0.00
ATOM 419	C	GLN	A	31	-20.090	-3.636	-3.783	1.00	0.00
ATOM 420	O	GLN	A	31	-19.783	-4.345	-2.824	1.00	0.00
ATOM 421	CB	GLN	A	31	-21.884	-4.782	-5.102	1.00	0.00
ATOM 422	CG	GLN	A	31	-22.467	-5.035	-6.481	1.00	0.00
ATOM 423	CD	GLN	A	31	-23.912	-4.593	-6.595	1.00	0.00
ATOM 424	OE1	GLN	A	31	-24.215	-3.567	-7.205	1.00	0.00
ATOM 425	NE2	GLN	A	31	-24.816	-5.367	-6.004	1.00	0.00
ATOM 426	H	GLN	A	31	-19.473	-6.127	-4.864	1.00	0.00
ATOM 427	HA	GLN	A	31	-20.357	-3.517	-5.903	1.00	0.00
ATOM 428	1HB	GLN	A	31	-21.911	-5.708	-4.547	1.00	0.00
ATOM 429	2HB	GLN	A	31	-22.505	-4.054	-4.600	1.00	0.00
ATOM 430	1HG	GLN	A	31	-21.883	-4.492	-7.211	1.00	0.00
ATOM 431	2HG	GLN	A	31	-22.411	-6.093	-6.693	1.00	0.00
ATOM 432	1HE2	GLN	A	31	-24.504	-6.168	-5.535	1.00	0.00

ATOM 433	2HE2	GLN	A	31	-25.759	-5.105	-6.062	1.00	0.00
ATOM 434	N	PRO	A	32	-20.126	-2.292	-3.688	1.00	0.00
ATOM 435	CA	PRO	A	32	-19.806	-1.577	-2.448	1.00	0.00
ATOM 436	C	PRO	A	32	-20.912	-1.689	-1.399	1.00	0.00
ATOM 437	O	PRO	A	32	-20.773	-1.179	-0.287	1.00	0.00
ATOM 438	CB	PRO	A	32	-19.645	-0.113	-2.893	1.00	0.00
ATOM 439	CG	PRO	A	32	-19.705	-0.128	-4.387	1.00	0.00
ATOM 440	CD	PRO	A	32	-20.473	-1.360	-4.766	1.00	0.00
ATOM 441	HA	PRO	A	32	-18.877	-1.927	-2.023	1.00	0.00
ATOM 442	1HB	PRO	A	32	-20.446	0.480	-2.475	1.00	0.00
ATOM 443	2HB	PRO	A	32	-18.696	0.266	-2.543	1.00	0.00
ATOM 444	1HG	PRO	A	32	-20.216	0.754	-4.742	1.00	0.00
ATOM 445	2HG	PRO	A	32	-18.705	-0.172	-4.792	1.00	0.00
ATOM 446	1HD	PRO	A	32	-21.534	-1.158	-4.779	1.00	0.00
ATOM 447	2HD	PRO	A	32	-20.143	-1.732	-5.722	1.00	0.00
ATOM 448	N	SER	A	33	-22.010	-2.353	-1.753	1.00	0.00
ATOM 449	CA	SER	A	33	-23.132	-2.518	-0.834	1.00	0.00
ATOM 450	C	SER	A	33	-23.038	-3.840	-0.076	1.00	0.00
ATOM 451	O	SER	A	33	-24.057	-4.447	0.256	1.00	0.00
ATOM 452	CB	SER	A	33	-24.455	-2.450	-1.597	1.00	0.00
ATOM 453	OG	SER	A	33	-25.554	-2.352	-0.708	1.00	0.00
ATOM 454	H	SER	A	33	-22.071	-2.736	-2.652	1.00	0.00
ATOM 455	HA	SER	A	33	-23.097	-1.707	-0.122	1.00	0.00
ATOM 456	1HB	SER	A	33	-24.452	-1.583	-2.243	1.00	0.00
ATOM 457	2HB	SER	A	33	-24.569	-3.342	-2.195	1.00	0.00
ATOM 458	HG	SER	A	33	-26.161	-3.077	-0.868	1.00	0.00
ATOM 459	N	THR	A	34	-21.814	-4.280	0.198	1.00	0.00

ATOM 460	CA	THR A	34	-21.596	-5.528	0.919	1.00	0.00
ATOM 461	C	THR A	34	-20.471	-5.376	1.937	1.00	0.00
ATOM 462	O	THR A	34	-19.458	-4.732	1.667	1.00	0.00
ATOM 463	CB	THR A	34	-21.266	-6.658	-0.059	1.00	0.00
ATOM 464	OG1	THR A	34	-19.905	-6.602	-0.448	1.00	0.00
ATOM 465	CG2	THR A	34	-22.106	-6.627	-1.318	1.00	0.00
ATOM 466	H	THR A	34	-21.042	-3.753	-0.090	1.00	0.00
ATOM 467	HA	THR A	34	-22.508	-5.772	1.442	1.00	0.00
ATOM 468	HB	THR A	34	-21.440	-7.606	0.430	1.00	0.00
ATOM 469	HG1	THR A	34	-19.709	-5.733	-0.804	1.00	0.00
ATOM 470	1HG2	THR A	34	-21.562	-6.116	-2.100	1.00	0.00
ATOM 471	2HG2	THR A	34	-23.029	-6.103	-1.121	1.00	0.00
ATOM 472	3HG2	THR A	34	-22.323	-7.637	-1.632	1.00	0.00
ATOM 473	N	THR A	35	-20.656	-5.973	3.112	1.00	0.00
ATOM 474	CA	THR A	35	-19.655	-5.904	4.171	1.00	0.00
ATOM 475	C	THR A	35	-18.315	-6.451	3.691	1.00	0.00
ATOM 476	O	THR A	35	-17.258	-5.913	4.021	1.00	0.00
ATOM 477	CB	THR A	35	-20.128	-6.684	5.399	1.00	0.00
ATOM 478	OG1	THR A	35	-21.514	-6.488	5.614	1.00	0.00
ATOM 479	CG2	THR A	35	-19.406	-6.294	6.670	1.00	0.00
ATOM 480	H	THR A	35	-21.484	-6.473	3.268	1.00	0.00
ATOM 481	HA	THR A	35	-19.530	-4.866	4.442	1.00	0.00
ATOM 482	HB	THR A	35	-19.955	-7.737	5.231	1.00	0.00
ATOM 483	HG1	THR A	35	-22.012	-7.126	5.098	1.00	0.00
ATOM 484	1HG2	THR A	35	-18.357	-6.532	6.577	1.00	0.00
ATOM 485	2HG2	THR A	35	-19.826	-6.836	7.504	1.00	0.00
ATOM 486	3HG2	THR A	35	-19.520	-5.232	6.837	1.00	0.00

ATOM 487	N	LYS A	36	-18.369	-7.521	2.906	1.00	0.00
ATOM 488	CA	LYS A	36	-17.161	-8.143	2.373	1.00	0.00
ATOM 489	C	LYS A	36	-16.364	-7.149	1.534	1.00	0.00
ATOM 490	O	LYS A	36	-15.140	-7.240	1.444	1.00	0.00
ATOM 491	CB	LYS A	36	-17.530	-9.366	1.532	1.00	0.00
ATOM 492	CG	LYS A	36	-16.340	-10.242	1.171	1.00	0.00
ATOM 493	CD	LYS A	36	-15.747	-10.917	2.396	1.00	0.00
ATOM 494	CE	LYS A	36	-14.234	-11.014	2.296	1.00	0.00
ATOM 495	NZ	LYS A	36	-13.587	-9.673	2.314	1.00	0.00
ATOM 496	H	LYS A	36	-19.242	-7.902	2.677	1.00	0.00
ATOM 497	HA	LYS A	36	-16.555	-8.459	3.206	1.00	0.00
ATOM 498	1HB	LYS A	36	-18.237	-9.968	2.083	1.00	0.00
ATOM 499	2HB	LYS A	36	-17.993	-9.032	0.617	1.00	0.00
ATOM 500	1HG	LYS A	36	-16.664	-11.002	0.476	1.00	0.00
ATOM 501	2HG	LYS A	36	-15.583	-9.628	0.709	1.00	0.00
ATOM 502	1HD	LYS A	36	-16.004	-10.342	3.273	1.00	0.00
ATOM 503	2HD	LYS A	36	-16.159	-11.911	2.482	1.00	0.00
ATOM 504	1HE	LYS A	36	-13.867	-11.591	3.130	1.00	0.00
ATOM 505	2HE	LYS A	36	-13.979	-11.515	1.373	1.00	0.00
ATOM 506	1HZ	LYS A	36	-12.788	-9.653	1.649	1.00	0.00
ATOM 507	2HZ	LYS A	36	-13.233	-9.460	3.268	1.00	0.00
ATOM 508	3HZ	LYS A	36	-14.272	-8.941	2.039	1.00	0.00
ATOM 509	N	TYR A	37	-17.065	-6.198	0.925	1.00	0.00
ATOM 510	CA	TYR A	37	-16.423	-5.184	0.096	1.00	0.00
ATOM 511	C	TYR A	37	-15.686	-4.164	0.960	1.00	0.00
ATOM 512	O	TYR A	37	-14.469	-4.009	0.854	1.00	0.00
ATOM 513	CB	TYR A	37	-17.463	-4.479	-0.778	1.00	0.00

ATOM 514	CG	TYR A	37	-16.893	-3.361	-1.624	1.00	0.00
ATOM 515	CD1	TYR A	37	-16.685	-3.532	-2.987	1.00	0.00
ATOM 516	CD2	TYR A	37	-16.564	-2.135	-1.059	1.00	0.00
ATOM 517	CE1	TYR A	37	-16.166	-2.512	-3.763	1.00	0.00
ATOM 518	CE2	TYR A	37	-16.045	-1.111	-1.828	1.00	0.00
ATOM 519	CZ	TYR A	37	-15.849	-1.304	-3.180	1.00	0.00
ATOM 520	OH	TYR A	37	-15.331	-0.287	-3.948	1.00	0.00
ATOM 521	H	TYR A	37	-18.039	-6.176	1.037	1.00	0.00
ATOM 522	HA	TYR A	37	-15.707	-5.682	-0.541	1.00	0.00
ATOM 523	1HB	TYR A	37	-17.909	-5.201	-1.445	1.00	0.00
ATOM 524	2HB	TYR A	37	-18.229	-4.059	-0.144	1.00	0.00
ATOM 525	HD1	TYR A	37	-16.936	-4.479	-3.441	1.00	0.00
ATOM 526	HD2	TYR A	37	-16.720	-1.986	-0.001	1.00	0.00
ATOM 527	HE1	TYR A	37	-16.012	-2.664	-4.821	1.00	0.00
ATOM 528	HE2	TYR A	37	-15.798	-0.165	-1.371	1.00	0.00
ATOM 529	HH	TYR A	37	-16.021	0.352	-4.140	1.00	0.00
ATOM 530	N	GLN A	38	-16.433	-3.470	1.812	1.00	0.00
ATOM 531	CA	GLN A	38	-15.852	-2.464	2.694	1.00	0.00
ATOM 532	C	GLN A	38	-14.800	-3.081	3.610	1.00	0.00
ATOM 533	O	GLN A	38	-13.838	-2.419	4.001	1.00	0.00
ATOM 534	CB	GLN A	38	-16.946	-1.798	3.531	1.00	0.00
ATOM 535	CG	GLN A	38	-17.539	-0.557	2.883	1.00	0.00
ATOM 536	CD	GLN A	38	-18.863	-0.152	3.502	1.00	0.00
ATOM 537	OE1	GLN A	38	-18.919	0.262	4.660	1.00	0.00
ATOM 538	NE2	GLN A	38	-19.937	-0.272	2.731	1.00	0.00
ATOM 539	H	GLN A	38	-17.397	-3.639	1.849	1.00	0.00
ATOM 540	HA	GLN A	38	-15.380	-1.715	2.076	1.00	0.00

ATOM 541	1HB	GLN A	38	-17.743	-2.509	3.692	1.00	0.00
ATOM 542	2HB	GLN A	38	-16.531	-1.515	4.487	1.00	0.00
ATOM 543	1HG	GLN A	38	-16.842	0.260	2.996	1.00	0.00
ATOM 544	2HG	GLN A	38	-17.693	-0.754	1.833	1.00	0.00
ATOM 545	1HE2	GLN A	38	-19.818	-0.611	1.820	1.00	0.00
ATOM 546	2HE2	GLN A	38	-20.806	-0.017	3.106	1.00	0.00
ATOM 547	N	GLN A	39	-14.989	-4.352	3.950	1.00	0.00
ATOM 548	CA	GLN A	39	-14.057	-5.057	4.822	1.00	0.00
ATOM 549	C	GLN A	39	-12.655	-5.079	4.220	1.00	0.00
ATOM 550	O	GLN A	39	-11.683	-4.693	4.869	1.00	0.00
ATOM 551	CB	GLN A	39	-14.542	-6.487	5.072	1.00	0.00
ATOM 552	CG	GLN A	39	-15.311	-6.648	6.373	1.00	0.00
ATOM 553	CD	GLN A	39	-14.454	-7.201	7.493	1.00	0.00
ATOM 554	OE1	GLN A	39	-13.346	-7.685	7.263	1.00	0.00
ATOM 555	NE2	GLN A	39	-14.964	-7.132	8.718	1.00	0.00
ATOM 556	H	GLN A	39	-15.776	-4.826	3.608	1.00	0.00
ATOM 557	HA	GLN A	39	-14.021	-4.529	5.763	1.00	0.00
ATOM 558	1HB	GLN A	39	-15.185	-6.783	4.258	1.00	0.00
ATOM 559	2HB	GLN A	39	-13.686	-7.146	5.103	1.00	0.00
ATOM 560	1HG	GLN A	39	-15.691	-5.683	6.674	1.00	0.00
ATOM 561	2HG	GLN A	39	-16.139	-7.323	6.204	1.00	0.00
ATOM 562	1HE2	GLN A	39	-15.852	-6.734	8.828	1.00	0.00
ATOM 563	2HE2	GLN A	39	-14.431	-7.483	9.462	1.00	0.00
ATOM 564	N	THR A	40	-12.558	-5.532	2.974	1.00	0.00
ATOM 565	CA	THR A	40	-11.275	-5.605	2.285	1.00	0.00
ATOM 566	C	THR A	40	-10.646	-4.221	2.154	1.00	0.00
ATOM 567	O	THR A	40	-9.452	-4.044	2.396	1.00	0.00

ATOM 568	CB	THR A	40	-11.449	-6.230	0.900	1.00	0.00
ATOM 569	OG1	THR A	40	-12.528	-7.149	0.896	1.00	0.00
ATOM 570	CG2	THR A	40	-10.219	-6.966	0.416	1.00	0.00
ATOM 571	H	THR A	40	-13.369	-5.826	2.506	1.00	0.00
ATOM 572	HA	THR A	40	-10.619	-6.230	2.872	1.00	0.00
ATOM 573	HB	THR A	40	-11.668	-5.447	0.188	1.00	0.00
ATOM 574	HG1	THR A	40	-12.490	-7.691	1.688	1.00	0.00
ATOM 575	1HG2	THR A	40	-9.541	-7.117	1.243	1.00	0.00
ATOM 576	2HG2	THR A	40	-9.728	-6.381	-0.349	1.00	0.00
ATOM 577	3HG2	THR A	40	-10.508	-7.922	0.007	1.00	0.00
ATOM 578	N	LYS A	41	-11.459	-3.242	1.770	1.00	0.00
ATOM 579	CA	LYS A	41	-10.983	-1.873	1.606	1.00	0.00
ATOM 580	C	LYS A	41	-10.410	-1.333	2.913	1.00	0.00
ATOM 581	O	LYS A	41	-9.258	-0.902	2.966	1.00	0.00
ATOM 582	CB	LYS A	41	-12.121	-0.970	1.124	1.00	0.00
ATOM 583	CG	LYS A	41	-11.645	0.347	0.533	1.00	0.00
ATOM 584	CD	LYS A	41	-12.815	1.231	0.131	1.00	0.00
ATOM 585	CE	LYS A	41	-13.132	1.096	-1.348	1.00	0.00
ATOM 586	NZ	LYS A	41	-13.756	2.332	-1.897	1.00	0.00
ATOM 587	H	LYS A	41	-12.401	-3.445	1.592	1.00	0.00
ATOM 588	HA	LYS A	41	-10.202	-1.880	0.860	1.00	0.00
ATOM 589	1HB	LYS A	41	-12.686	-1.497	0.368	1.00	0.00
ATOM 590	2HB	LYS A	41	-12.769	-0.753	1.959	1.00	0.00
ATOM 591	1HG	LYS A	41	-11.050	0.865	1.269	1.00	0.00
ATOM 592	2HG	LYS A	41	-11.043	0.141	-0.340	1.00	0.00
ATOM 593	1HD	LYS A	41	-13.684	0.943	0.704	1.00	0.00
ATOM 594	2HD	LYS A	41	-12.565	2.259	0.345	1.00	0.00



ATOM 595	1HE	LYS	A	41	-12.217	0.897	-1.884	1.00	0.00
ATOM 596	2HE	LYS	A	41	-13.814	0.269	-1.484	1.00	0.00
ATOM 597	1HZ	LYS	A	41	-13.094	3.131	-1.821	1.00	0.00
ATOM 598	2HZ	LYS	A	41	-14.621	2.562	-1.368	1.00	0.00
ATOM 599	3HZ	LYS	A	41	-14.002	2.194	-2.899	1.00	0.00
ATOM 600	N	ARG	A	42	-11.222	-1.359	3.963	1.00	0.00
ATOM 601	CA	ARG	A	42	-10.799	-0.871	5.271	1.00	0.00
ATOM 602	C	ARG	A	42	-9.574	-1.632	5.770	1.00	0.00
ATOM 603	O	ARG	A	42	-8.672	-1.051	6.372	1.00	0.00
ATOM 604	CB	ARG	A	42	-11.941	-1.003	6.281	1.00	0.00
ATOM 605	CG	ARG	A	42	-11.732	-0.186	7.545	1.00	0.00
ATOM 606	CD	ARG	A	42	-13.022	-0.047	8.337	1.00	0.00
ATOM 607	NE	ARG	A	42	-13.790	1.129	7.934	1.00	0.00
ATOM 608	CZ	ARG	A	42	-15.081	1.300	8.203	1.00	0.00
ATOM 609	NH1	ARG	A	42	-15.755	0.374	8.874	1.00	0.00
ATOM 610	NH2	ARG	A	42	-15.703	2.399	7.799	1.00	0.00
ATOM 611	H	ARG	A	42	-12.130	-1.714	3.858	1.00	0.00
ATOM 612	HA	ARG	A	42	-10.541	0.172	5.168	1.00	0.00
ATOM 613	1HB	ARG	A	42	-12.858	-0.676	5.814	1.00	0.00
ATOM 614	2HB	ARG	A	42	-12.040	-2.041	6.562	1.00	0.00
ATOM 615	1HG	ARG	A	42	-10.994	-0.676	8.162	1.00	0.00
ATOM 616	2HG	ARG	A	42	-11.381	0.799	7.272	1.00	0.00
ATOM 617	1HD	ARG	A	42	-13.625	-0.930	8.177	1.00	0.00
ATOM 618	2HD	ARG	A	42	-12.779	0.036	9.386	1.00	0.00
ATOM 619	HE	ARG	A	42	-13.317	1.828	7.435	1.00	0.00
ATOM 620	1HH1	ARG	A	42	-15.293	-0.458	9.181	1.00	0.00
ATOM 621	2HH1	ARG	A	42	-16.726	0.508	9.073	1.00	0.00

ATOM 622	1HH2	ARG	A	42	-15.201	3.100	7.293	1.00	0.00
ATOM 623	2HH2	ARG	A	42	-16.674	2.528	8.000	1.00	0.00
ATOM 624	N	SER	A	43	-9.550	-2.936	5.516	1.00	0.00
ATOM 625	CA	SER	A	43	-8.437	-3.778	5.940	1.00	0.00
ATOM 626	C	SER	A	43	-7.128	-3.308	5.314	1.00	0.00
ATOM 627	O	SER	A	43	-6.131	-3.113	6.009	1.00	0.00
ATOM 628	CB	SER	A	43	-8.700	-5.236	5.561	1.00	0.00
ATOM 629	OG	SER	A	43	-7.863	-6.114	6.295	1.00	0.00
ATOM 630	H	SER	A	43	-10.299	-3.343	5.032	1.00	0.00
ATOM 631	HA	SER	A	43	-8.355	-3.703	7.014	1.00	0.00
ATOM 632	1HB	SER	A	43	-9.730	-5.482	5.775	1.00	0.00
ATOM 633	2HB	SER	A	43	-8.509	-5.373	4.508	1.00	0.00
ATOM 634	HG	SER	A	43	-6.964	-5.779	6.288	1.00	0.00
ATOM 635	N	ILE	A	44	-7.136	-3.129	3.997	1.00	0.00
ATOM 636	CA	ILE	A	44	-5.948	-2.683	3.279	1.00	0.00
ATOM 637	C	ILE	A	44	-5.643	-1.219	3.577	1.00	0.00
ATOM 638	O	ILE	A	44	-4.502	-0.861	3.871	1.00	0.00
ATOM 639	CB	ILE	A	44	-6.110	-2.865	1.757	1.00	0.00
ATOM 640	CG1	ILE	A	44	-6.548	-4.296	1.437	1.00	0.00
ATOM 641	CG2	ILE	A	44	-4.809	-2.533	1.039	1.00	0.00
ATOM 642	CD1	ILE	A	44	-7.138	-4.452	0.052	1.00	0.00
ATOM 643	H	ILE	A	44	-7.961	-3.302	3.497	1.00	0.00
ATOM 644	HA	ILE	A	44	-5.115	-3.288	3.606	1.00	0.00
ATOM 645	HB	ILE	A	44	-6.868	-2.178	1.413	1.00	0.00
ATOM 646	1HG1	ILE	A	44	-5.694	-4.952	1.509	1.00	0.00
ATOM 647	2HG1	ILE	A	44	-7.296	-4.605	2.153	1.00	0.00
ATOM 648	1HG2	ILE	A	44	-4.189	-1.925	1.681	1.00	0.00

ATOM 649	2HG2	ILE	A	44	-5.028	-1.991	0.131	1.00	0.00
ATOM 650	3HG2	ILE	A	44	-4.288	-3.446	0.796	1.00	0.00
ATOM 651	1HD1	ILE	A	44	-7.186	-3.486	-0.429	1.00	0.00
ATOM 652	2HD1	ILE	A	44	-8.132	-4.866	0.129	1.00	0.00
ATOM 653	3HD1	ILE	A	44	-6.515	-5.114	-0.531	1.00	0.00
ATOM 654	N	GLU	A	45	-6.668	-0.377	3.501	1.00	0.00
ATOM 655	CA	GLU	A	45	-6.508	1.048	3.764	1.00	0.00
ATOM 656	C	GLU	A	45	-5.933	1.283	5.158	1.00	0.00
ATOM 657	O	GLU	A	45	-5.233	2.267	5.395	1.00	0.00
ATOM 658	CB	GLU	A	45	-7.850	1.769	3.627	1.00	0.00
ATOM 659	CG	GLU	A	45	-7.727	3.194	3.111	1.00	0.00
ATOM 660	CD	GLU	A	45	-7.895	4.227	4.208	1.00	0.00
ATOM 661	OE1	GLU	A	45	-7.556	3.919	5.370	1.00	0.00
ATOM 662	OE2	GLU	A	45	-8.365	5.344	3.905	1.00	0.00
ATOM 663	H	GLU	A	45	-7.554	-0.722	3.262	1.00	0.00
ATOM 664	HA	GLU	A	45	-5.820	1.445	3.033	1.00	0.00
ATOM 665	1HB	GLU	A	45	-8.474	1.215	2.941	1.00	0.00
ATOM 666	2HB	GLU	A	45	-8.330	1.799	4.593	1.00	0.00
ATOM 667	1HG	GLU	A	45	-6.750	3.319	2.667	1.00	0.00
ATOM 668	2HG	GLU	A	45	-8.486	3.359	2.361	1.00	0.00
ATOM 669	N	ASN	A	46	-6.234	0.371	6.078	1.00	0.00
ATOM 670	CA	ASN	A	46	-5.747	0.476	7.448	1.00	0.00
ATOM 671	C	ASN	A	46	-4.310	-0.025	7.554	1.00	0.00
ATOM 672	O	ASN	A	46	-3.465	0.610	8.185	1.00	0.00
ATOM 673	CB	ASN	A	46	-6.651	-0.323	8.390	1.00	0.00
ATOM 674	CG	ASN	A	46	-6.218	-0.213	9.840	1.00	0.00
ATOM 675	OD1	ASN	A	46	-5.727	0.827	10.276	1.00	0.00

ATOM 676	ND2	ASN	A	46	-6.399	-1.292	10.593	1.00	0.00
ATOM 677	H	ASN	A	46	-6.796	-0.391	5.827	1.00	0.00
ATOM 678	HA	ASN	A	46	-5.776	1.517	7.731	1.00	0.00
ATOM 679	1HB	ASN	A	46	-7.662	0.048	8.308	1.00	0.00
ATOM 680	2HB	ASN	A	46	-6.629	-1.364	8.104	1.00	0.00
ATOM 681	1HD2	ASN	A	46	-6.797	-2.086	10.177	1.00	0.00
ATOM 682	2HD2	ASN	A	46	-6.130	-1.250	11.534	1.00	0.00
ATOM 683	N	ALA	A	47	-4.040	-1.169	6.932	1.00	0.00
ATOM 684	CA	ALA	A	47	-2.706	-1.756	6.956	1.00	0.00
ATOM 685	C	ALA	A	47	-1.712	-0.893	6.185	1.00	0.00
ATOM 686	O	ALA	A	47	-0.554	-0.760	6.580	1.00	0.00
ATOM 687	CB	ALA	A	47	-2.740	-3.165	6.383	1.00	0.00
ATOM 688	H	ALA	A	47	-4.756	-1.629	6.445	1.00	0.00
ATOM 689	HA	ALA	A	47	-2.389	-1.819	7.986	1.00	0.00
ATOM 690	1HB	ALA	A	47	-1.816	-3.364	5.861	1.00	0.00
ATOM 691	2HB	ALA	A	47	-3.568	-3.254	5.695	1.00	0.00
ATOM 692	3HB	ALA	A	47	-2.861	-3.877	7.186	1.00	0.00
ATOM 693	N	LEU	A	48	-2.172	-0.311	5.083	1.00	0.00
ATOM 694	CA	LEU	A	48	-1.324	0.539	4.256	1.00	0.00
ATOM 695	C	LEU	A	48	-1.043	1.869	4.949	1.00	0.00
ATOM 696	O	LEU	A	48	0.015	2.468	4.759	1.00	0.00
ATOM 697	CB	LEU	A	48	-1.982	0.788	2.897	1.00	0.00
ATOM 698	CG	LEU	A	48	-1.723	-0.292	1.845	1.00	0.00
ATOM 699	CD1	LEU	A	48	-2.456	0.035	0.553	1.00	0.00
ATOM 700	CD2	LEU	A	48	-0.230	-0.438	1.591	1.00	0.00
ATOM 701	H	LEU	A	48	-3.106	-0.455	4.819	1.00	0.00
ATOM 702	HA	LEU	A	48	-0.387	0.023	4.103	1.00	0.00

ATOM 703	1HB	LEU	A	48	-3.050	0.865	3.048	1.00	0.00
ATOM 704	2HB	LEU	A	48	-1.620	1.729	2.512	1.00	0.00
ATOM 705	HG	LEU	A	48	-2.095	-1.238	2.210	1.00	0.00
ATOM 706	1HD1	LEU	A	48	-2.736	-0.883	0.056	1.00	0.00
ATOM 707	2HD1	LEU	A	48	-1.810	0.611	-0.092	1.00	0.00
ATOM 708	3HD1	LEU	A	48	-3.343	0.608	0.777	1.00	0.00
ATOM 709	1HD2	LEU	A	48	0.233	0.538	1.595	1.00	0.00
ATOM 710	2HD2	LEU	A	48	-0.073	-0.906	0.630	1.00	0.00
ATOM 711	3HD2	LEU	A	48	0.210	-1.049	2.365	1.00	0.00
ATOM 712	N	ASN	A	49	-1.999	2.325	5.752	1.00	0.00
ATOM 713	CA	ASN	A	49	-1.857	3.585	6.473	1.00	0.00
ATOM 714	C	ASN	A	49	-0.637	3.553	7.390	1.00	0.00
ATOM 715	O	ASN	A	49	0.258	4.390	7.276	1.00	0.00
ATOM 716	CB	ASN	A	49	-3.118	3.873	7.290	1.00	0.00
ATOM 717	CG	ASN	A	49	-3.555	5.321	7.188	1.00	0.00
ATOM 718	OD1	ASN	A	49	-3.305	6.122	8.089	1.00	0.00
ATOM 719	ND2	ASN	A	49	-4.211	5.665	6.086	1.00	0.00
ATOM 720	H	ASN	A	49	-2.821	1.801	5.862	1.00	0.00
ATOM 721	HA	ASN	A	49	-1.724	4.370	5.744	1.00	0.00
ATOM 722	1HB	ASN	A	49	-3.922	3.248	6.930	1.00	0.00
ATOM 723	2HB	ASN	A	49	-2.928	3.645	8.329	1.00	0.00
ATOM 724	1HD2	ASN	A	49	-4.375	4.974	5.411	1.00	0.00
ATOM 725	2HD2	ASN	A	49	-4.505	6.596	5.994	1.00	0.00
ATOM 726	N	GLN	A	50	-0.611	2.584	8.299	1.00	0.00
ATOM 727	CA	GLN	A	50	0.498	2.445	9.236	1.00	0.00
ATOM 728	C	GLN	A	50	1.803	2.146	8.503	1.00	0.00
ATOM 729	O	GLN	A	50	2.887	2.465	8.992	1.00	0.00

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ATOM 730	CB	GLN A	50	0.202	1.337	10.248	1.00	0.00
ATOM 731	CG	GLN A	50	-0.109	-0.007	9.608	1.00	0.00
ATOM 732	CD	GLN A	50	-1.106	-0.817	10.412	1.00	0.00
ATOM 733	OE1	GLN A	50	-2.275	-0.928	10.043	1.00	0.00
ATOM 734	NE2	GLN A	50	-0.647	-1.390	11.518	1.00	0.00
ATOM 735	H	GLN A	50	-1.355	1.948	8.341	1.00	0.00
ATOM 736	HA	GLN A	50	0.603	3.381	9.763	1.00	0.00
ATOM 737	1HB	GLN A	50	1.061	1.214	10.891	1.00	0.00
ATOM 738	2HB	GLN A	50	-0.646	1.630	10.848	1.00	0.00
ATOM 739	1HG	GLN A	50	-0.518	0.164	8.623	1.00	0.00
ATOM 740	2HG	GLN A	50	0.808	-0.571	9.523	1.00	0.00
ATOM 741	1HE2	GLN A	50	0.295	-1.259	11.751	1.00	0.00
ATOM 742	2HE2	GLN A	50	-1.271	-1.921	12.057	1.00	0.00
ATOM 743	N	LEU A	51	1.692	1.530	7.330	1.00	0.00
ATOM 744	CA	LEU A	51	2.865	1.188	6.533	1.00	0.00
ATOM 745	C	LEU A	51	3.609	2.444	6.087	1.00	0.00
ATOM 746	O	LEU A	51	4.828	2.426	5.916	1.00	0.00
ATOM 747	CB	LEU A	51	2.454	0.366	5.310	1.00	0.00
ATOM 748	CG	LEU A	51	3.565	-0.490	4.702	1.00	0.00
ATOM 749	CD1	LEU A	51	2.983	-1.727	4.038	1.00	0.00
ATOM 750	CD2	LEU A	51	4.374	0.323	3.702	1.00	0.00
ATOM 751	H	LEU A	51	0.802	1.299	6.992	1.00	0.00
ATOM 752	HA	LEU A	51	3.522	0.595	7.150	1.00	0.00
ATOM 753	1HB	LEU A	51	1.642	-0.286	5.599	1.00	0.00
ATOM 754	2HB	LEU A	51	2.096	1.044	4.550	1.00	0.00
ATOM 755	HG	LEU A	51	4.232	-0.814	5.487	1.00	0.00
ATOM 756	1HD1	LEU A	51	3.675	-2.550	4.140	1.00	0.00

ATOM 757	2HD1	LEU	A	51	2.813	-1.528	2.990	1.00	0.00
ATOM 758	3HD1	LEU	A	51	2.047	-1.983	4.512	1.00	0.00
ATOM 759	1HD2	LEU	A	51	3.999	0.145	2.705	1.00	0.00
ATOM 760	2HD2	LEU	A	51	5.412	0.028	3.754	1.00	0.00
ATOM 761	3HD2	LEU	A	51	4.288	1.374	3.937	1.00	0.00
ATOM 762	N	PHE	A	52	2.869	3.531	5.900	1.00	0.00
ATOM 763	CA	PHE	A	52	3.458	4.793	5.470	1.00	0.00
ATOM 764	C	PHE	A	52	4.147	5.501	6.634	1.00	0.00
ATOM 765	O	PHE	A	52	5.331	5.827	6.560	1.00	0.00
ATOM 766	CB	PHE	A	52	2.384	5.701	4.871	1.00	0.00
ATOM 767	CG	PHE	A	52	1.492	5.001	3.885	1.00	0.00
ATOM 768	CD1	PHE	A	52	2.031	4.209	2.885	1.00	0.00
ATOM 769	CD2	PHE	A	52	0.115	5.136	3.959	1.00	0.00
ATOM 770	CE1	PHE	A	52	1.214	3.563	1.978	1.00	0.00
ATOM 771	CE2	PHE	A	52	-0.708	4.494	3.055	1.00	0.00
ATOM 772	CZ	PHE	A	52	-0.158	3.705	2.062	1.00	0.00
ATOM 773	H	PHE	A	52	1.901	3.483	6.050	1.00	0.00
ATOM 774	HA	PHE	A	52	4.195	4.574	4.712	1.00	0.00
ATOM 775	1HB	PHE	A	52	1.762	6.086	5.665	1.00	0.00
ATOM 776	2HB	PHE	A	52	2.861	6.526	4.362	1.00	0.00
ATOM 777	HD1	PHE	A	52	3.103	4.096	2.819	1.00	0.00
ATOM 778	HD2	PHE	A	52	-0.316	5.752	4.734	1.00	0.00
ATOM 779	HE1	PHE	A	52	1.646	2.947	1.203	1.00	0.00
ATOM 780	HE2	PHE	A	52	-1.779	4.607	3.123	1.00	0.00
ATOM 781	HZ	PHE	A	52	-0.799	3.201	1.354	1.00	0.00
ATOM 782	N	ARG	A	53	3.397	5.737	7.705	1.00	0.00
ATOM 783	CA	ARG	A	53	3.936	6.408	8.884	1.00	0.00

ATOM 784	C	ARG A	53	5.163	5.677	9.424	1.00	0.00
ATOM 785	O	ARG A	53	5.997	6.269	10.107	1.00	0.00
ATOM 786	CB	ARG A	53	2.865	6.506	9.974	1.00	0.00
ATOM 787	CG	ARG A	53	2.449	5.160	10.543	1.00	0.00
ATOM 788	CD	ARG A	53	1.201	5.277	11.402	1.00	0.00
ATOM 789	NE	ARG A	53	1.490	5.843	12.718	1.00	0.00
ATOM 790	CZ	ARG A	53	1.490	7.148	12.985	1.00	0.00
ATOM 791	NH1	ARG A	53	1.215	8.032	12.032	1.00	0.00
ATOM 792	NH2	ARG A	53	1.764	7.573	14.211	1.00	0.00
ATOM 793	H	ARG A	53	2.458	5.454	7.703	1.00	0.00
ATOM 794	HA	ARG A	53	4.228	7.406	8.591	1.00	0.00
ATOM 795	1HB	ARG A	53	3.245	7.113	10.783	1.00	0.00
ATOM 796	2HB	ARG A	53	1.989	6.983	9.558	1.00	0.00
ATOM 797	1HG	ARG A	53	2.250	4.482	9.726	1.00	0.00
ATOM 798	2HG	ARG A	53	3.256	4.772	11.148	1.00	0.00
ATOM 799	1HD	ARG A	53	0.488	5.910	10.895	1.00	0.00
ATOM 800	2HD	ARG A	53	0.776	4.292	11.531	1.00	0.00
ATOM 801	HE	ARG A	53	1.698	5.217	13.442	1.00	0.00
ATOM 802	1HH1	ARG A	53	1.007	7.722	11.105	1.00	0.00
ATOM 803	2HH1	ARG A	53	1.216	9.010	12.243	1.00	0.00
ATOM 804	1HH2	ARG A	53	1.972	6.913	14.933	1.00	0.00
ATOM 805	2HH2	ARG A	53	1.764	8.551	14.413	1.00	0.00
ATOM 806	N	ASN A	54	5.267	4.388	9.114	1.00	0.00
ATOM 807	CA	ASN A	54	6.393	3.581	9.570	1.00	0.00
ATOM 808	C	ASN A	54	7.555	3.657	8.584	1.00	0.00
ATOM 809	O	ASN A	54	8.717	3.527	8.970	1.00	0.00
ATOM 810	CB	ASN A	54	5.962	2.126	9.756	1.00	0.00



ATOM 811	CG	ASN A	54	5.448	1.849	11.156	1.00	0.00
ATOM 812	OD1	ASN A	54	6.221	1.552	12.066	1.00	0.00
ATOM 813	ND2	ASN A	54	4.135	1.943	11.333	1.00	0.00
ATOM 814	H	ASN A	54	4.570	3.968	8.567	1.00	0.00
ATOM 815	HA	ASN A	54	6.718	3.975	10.522	1.00	0.00
ATOM 816	1HB	ASN A	54	5.175	1.897	9.053	1.00	0.00
ATOM 817	2HB	ASN A	54	6.806	1.480	9.569	1.00	0.00
ATOM 818	1HD2	ASN A	54	3.580	2.183	10.562	1.00	0.00
ATOM 819	2HD2	ASN A	54	3.776	1.770	12.228	1.00	0.00
ATOM 820	N	SER A	55	7.235	3.867	7.312	1.00	0.00
ATOM 821	CA	SER A	55	8.254	3.958	6.272	1.00	0.00
ATOM 822	C	SER A	55	9.179	5.145	6.518	1.00	0.00
ATOM 823	O	SER A	55	8.904	5.994	7.365	1.00	0.00
ATOM 824	CB	SER A	55	7.598	4.084	4.896	1.00	0.00
ATOM 825	OG	SER A	55	6.968	5.345	4.745	1.00	0.00
ATOM 826	H	SER A	55	6.291	3.961	7.066	1.00	0.00
ATOM 827	HA	SER A	55	8.838	3.050	6.300	1.00	0.00
ATOM 828	1HB	SER A	55	8.352	3.979	4.129	1.00	0.00
ATOM 829	2HB	SER A	55	6.856	3.308	4.780	1.00	0.00
ATOM 830	HG	SER A	55	6.717	5.470	3.827	1.00	0.00
ATOM 831	N	SER A	56	10.278	5.197	5.772	1.00	0.00
ATOM 832	CA	SER A	56	11.244	6.281	5.908	1.00	0.00
ATOM 833	C	SER A	56	10.676	7.591	5.369	1.00	0.00
ATOM 834	O	SER A	56	11.070	8.673	5.802	1.00	0.00
ATOM 835	CB	SER A	56	12.540	5.931	5.173	1.00	0.00
ATOM 836	OG	SER A	56	12.428	6.199	3.786	1.00	0.00
ATOM 837	H	SER A	56	10.441	4.491	5.113	1.00	0.00

ATOM 838	HA	SER A	56	11.458	6.402	6.959	1.00	0.00
ATOM 839	1HB	SER A	56	13.350	6.521	5.576	1.00	0.00
ATOM 840	2HB	SER A	56	12.757	4.883	5.309	1.00	0.00
ATOM 841	HG	SER A	56	12.622	5.400	3.290	1.00	0.00
ATOM 842	N	ILE A	57	9.749	7.486	4.421	1.00	0.00
ATOM 843	CA	ILE A	57	9.129	8.662	3.824	1.00	0.00
ATOM 844	C	ILE A	57	7.825	9.014	4.533	1.00	0.00
ATOM 845	O	ILE A	57	6.807	9.279	3.892	1.00	0.00
ATOM 846	CB	ILE A	57	8.848	8.447	2.325	1.00	0.00
ATOM 847	CG1	ILE A	57	8.062	7.153	2.110	1.00	0.00
ATOM 848	CG2	ILE A	57	10.151	8.418	1.539	1.00	0.00
ATOM 849	CD1	ILE A	57	7.503	7.010	0.711	1.00	0.00
ATOM 850	H	ILE A	57	9.476	6.596	4.117	1.00	0.00
ATOM 851	HA	ILE A	57	9.818	9.490	3.925	1.00	0.00
ATOM 852	HB	ILE A	57	8.261	9.281	1.968	1.00	0.00
ATOM 853	1HG1	ILE A	57	8.711	6.310	2.295	1.00	0.00
ATOM 854	2HG1	ILE A	57	7.234	7.123	2.804	1.00	0.00
ATOM 855	1HG2	ILE A	57	10.800	9.207	1.890	1.00	0.00
ATOM 856	2HG2	ILE A	57	9.943	8.563	0.490	1.00	0.00
ATOM 857	3HG2	ILE A	57	10.636	7.463	1.682	1.00	0.00
ATOM 858	1HD1	ILE A	57	8.088	6.288	0.162	1.00	0.00
ATOM 859	2HD1	ILE A	57	7.544	7.965	0.208	1.00	0.00
ATOM 860	3HD1	ILE A	57	6.477	6.675	0.766	1.00	0.00
ATOM 861	N	LYS A	58	7.863	9.014	5.861	1.00	0.00
ATOM 862	CA	LYS A	58	6.686	9.333	6.662	1.00	0.00
ATOM 863	C	LYS A	58	6.605	10.832	6.942	1.00	0.00
ATOM 864	O	LYS A	58	6.474	11.253	8.092	1.00	0.00

ATOM 865	CB	LYS A	58	6.716	8.555	7.979	1.00	0.00
ATOM 866	CG	LYS A	58	7.878	8.935	8.883	1.00	0.00
ATOM 867	CD	LYS A	58	8.250	7.797	9.820	1.00	0.00
ATOM 868	CE	LYS A	58	9.667	7.951	10.347	1.00	0.00
ATOM 869	NZ	LYS A	58	9.950	7.007	11.463	1.00	0.00
ATOM 870	H	LYS A	58	8.704	8.795	6.315	1.00	0.00
ATOM 871	HA	LYS A	58	5.813	9.037	6.099	1.00	0.00
ATOM 872	1HB	LYS A	58	5.796	8.741	8.514	1.00	0.00
ATOM 873	2HB	LYS A	58	6.788	7.500	7.759	1.00	0.00
ATOM 874	1HG	LYS A	58	8.734	9.176	8.270	1.00	0.00
ATOM 875	2HG	LYS A	58	7.598	9.797	9.469	1.00	0.00
ATOM 876	1HD	LYS A	58	7.565	7.794	10.655	1.00	0.00
ATOM 877	2HD	LYS A	58	8.173	6.862	9.285	1.00	0.00
ATOM 878	1HE	LYS A	58	10.360	7.758	9.542	1.00	0.00
ATOM 879	2HE	LYS A	58	9.799	8.963	10.701	1.00	0.00
ATOM 880	1HZ	LYS A	58	9.311	6.188	11.410	1.00	0.00
ATOM 881	2HZ	LYS A	58	9.811	7.482	12.378	1.00	0.00
ATOM 882	3HZ	LYS A	58	10.933	6.671	11.407	1.00	0.00
ATOM 883	N	SER A	59	6.684	11.632	5.884	1.00	0.00
ATOM 884	CA	SER A	59	6.618	13.082	6.019	1.00	0.00
ATOM 885	C	SER A	59	5.741	13.692	4.931	1.00	0.00
ATOM 886	O	SER A	59	4.816	14.453	5.218	1.00	0.00
ATOM 887	CB	SER A	59	8.023	13.686	5.956	1.00	0.00
ATOM 888	OG	SER A	59	8.020	15.032	6.398	1.00	0.00
ATOM 889	H	SER A	59	6.786	11.239	4.993	1.00	0.00
ATOM 890	HA	SER A	59	6.184	13.307	6.982	1.00	0.00
ATOM 891	1HB	SER A	59	8.687	13.115	6.587	1.00	0.00

ATOM 892	2HB	SER A	59	8.379	13.654	4.936	1.00	0.00
ATOM 893	HG	SER A	59	8.086	15.055	7.354	1.00	0.00
ATOM 894	N	TYR A	60	6.037	13.353	3.681	1.00	0.00
ATOM 895	CA	TYR A	60	5.275	13.867	2.549	1.00	0.00
ATOM 896	C	TYR A	60	4.078	12.972	2.244	1.00	0.00
ATOM 897	O	TYR A	60	3.048	13.442	1.762	1.00	0.00
ATOM 898	CB	TYR A	60	6.171	13.979	1.313	1.00	0.00
ATOM 899	CG	TYR A	60	7.467	14.716	1.569	1.00	0.00
ATOM 900	CD1	TYR A	60	8.682	14.044	1.567	1.00	0.00
ATOM 901	CD2	TYR A	60	7.473	16.084	1.812	1.00	0.00
ATOM 902	CE1	TYR A	60	9.868	14.713	1.801	1.00	0.00
ATOM 903	CE2	TYR A	60	8.655	16.761	2.046	1.00	0.00
ATOM 904	CZ	TYR A	60	9.849	16.072	2.040	1.00	0.00
ATOM 905	OH	TYR A	60	11.028	16.742	2.272	1.00	0.00
ATOM 906	H	TYR A	60	6.786	12.743	3.515	1.00	0.00
ATOM 907	HA	TYR A	60	4.917	14.851	2.811	1.00	0.00
ATOM 908	1HB	TYR A	60	6.417	12.986	0.965	1.00	0.00
ATOM 909	2HB	TYR A	60	5.636	14.506	0.536	1.00	0.00
ATOM 910	HD1	TYR A	60	8.694	12.979	1.379	1.00	0.00
ATOM 911	HD2	TYR A	60	6.536	16.620	1.817	1.00	0.00
ATOM 912	HE1	TYR A	60	10.803	14.174	1.795	1.00	0.00
ATOM 913	HE2	TYR A	60	8.639	17.824	2.234	1.00	0.00
ATOM 914	HH	TYR A	60	11.061	17.530	1.726	1.00	0.00
ATOM 915	N	PHE A	61	4.222	11.682	2.529	1.00	0.00
ATOM 916	CA	PHE A	61	3.150	10.722	2.286	1.00	0.00
ATOM 917	C	PHE A	61	1.876	11.128	3.019	1.00	0.00
ATOM 918	O	PHE A	61	1.792	11.027	4.243	1.00	0.00

ATOM 919	CB	PHE A	61	3.581	9.322	2.728	1.00	0.00
ATOM 920	CG	PHE A	61	2.903	8.218	1.970	1.00	0.00
ATOM 921	CD1	PHE A	61	3.630	7.387	1.132	1.00	0.00
ATOM 922	CD2	PHE A	61	1.538	8.010	2.095	1.00	0.00
ATOM 923	CE1	PHE A	61	3.008	6.370	0.432	1.00	0.00
ATOM 924	CE2	PHE A	61	0.912	6.995	1.397	1.00	0.00
ATOM 925	CZ	PHE A	61	1.647	6.174	0.565	1.00	0.00
ATOM 926	H	PHE A	61	5.067	11.368	2.913	1.00	0.00
ATOM 927	HA	PHE A	61	2.952	10.708	1.225	1.00	0.00
ATOM 928	1HB	PHE A	61	4.646	9.218	2.583	1.00	0.00
ATOM 929	2HB	PHE A	61	3.353	9.197	3.776	1.00	0.00
ATOM 930	HD1	PHE A	61	4.693	7.539	1.028	1.00	0.00
ATOM 931	HD2	PHE A	61	0.963	8.652	2.745	1.00	0.00
ATOM 932	HE1	PHE A	61	3.585	5.729	-0.217	1.00	0.00
ATOM 933	HE2	PHE A	61	-0.152	6.844	1.503	1.00	0.00
ATOM 934	HZ	PHE A	61	1.159	5.379	0.020	1.00	0.00
ATOM 935	N	SER A	62	0.886	11.590	2.262	1.00	0.00
ATOM 936	CA	SER A	62	-0.385	12.014	2.839	1.00	0.00
ATOM 937	C	SER A	62	-1.244	10.809	3.209	1.00	0.00
ATOM 938	O	SER A	62	-1.590	10.615	4.374	1.00	0.00
ATOM 939	CB	SER A	62	-1.140	12.911	1.858	1.00	0.00
ATOM 940	OG	SER A	62	-0.786	14.272	2.035	1.00	0.00
ATOM 941	H	SER A	62	1.013	11.648	1.291	1.00	0.00
ATOM 942	HA	SER A	62	-0.170	12.575	3.736	1.00	0.00
ATOM 943	1HB	SER A	62	-0.899	12.619	0.847	1.00	0.00
ATOM 944	2HB	SER A	62	-2.203	12.805	2.020	1.00	0.00
ATOM 945	HG	SER A	62	-1.179	14.800	1.336	1.00	0.00

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ATOM 946	N	ASP	A	63	-1.583	10.001	2.209	1.00	0.00
ATOM 947	CA	ASP	A	63	-2.402	8.814	2.430	1.00	0.00
ATOM 948	C	ASP	A	63	-2.585	8.030	1.135	1.00	0.00
ATOM 949	O	ASP	A	63	-2.130	8.453	0.072	1.00	0.00
ATOM 950	CB	ASP	A	63	-3.767	9.209	2.997	1.00	0.00
ATOM 951	CG	ASP	A	63	-4.311	8.177	3.966	1.00	0.00
ATOM 952	OD1	ASP	A	63	-4.831	7.141	3.501	1.00	0.00
ATOM 953	OD2	ASP	A	63	-4.219	8.406	5.190	1.00	0.00
ATOM 954	H	ASP	A	63	-1.277	10.207	1.301	1.00	0.00
ATOM 955	HA	ASP	A	63	-1.892	8.188	3.146	1.00	0.00
ATOM 956	1HB	ASP	A	63	-3.676	10.150	3.517	1.00	0.00
ATOM 957	2HB	ASP	A	63	-4.470	9.318	2.184	1.00	0.00
ATOM 958	N	CYS	A	64	-3.254	6.886	1.231	1.00	0.00
ATOM 959	CA	CYS	A	64	-3.497	6.043	0.066	1.00	0.00
ATOM 960	C	CYS	A	64	-4.979	6.026	-0.293	1.00	0.00
ATOM 961	O	CYS	A	64	-5.824	5.675	0.531	1.00	0.00
ATOM 962	CB	CYS	A	64	-3.009	4.617	0.331	1.00	0.00
ATOM 963	SG	CYS	A	64	-2.255	3.817	-1.106	1.00	0.00
ATOM 964	H	CYS	A	64	-3.592	6.602	2.106	1.00	0.00
ATOM 965	HA	CYS	A	64	-2.943	6.455	-0.763	1.00	0.00
ATOM 966	1HB	CYS	A	64	-2.271	4.638	1.118	1.00	0.00
ATOM 967	2HB	CYS	A	64	-3.846	4.010	0.644	1.00	0.00
ATOM 968	HG	CYS	A	64	-1.303	3.825	-0.983	1.00	0.00
ATOM 969	N	GLN	A	65	-5.289	6.409	-1.527	1.00	0.00
ATOM 970	CA	GLN	A	65	-6.668	6.437	-1.996	1.00	0.00
ATOM 971	C	GLN	A	65	-7.011	5.161	-2.756	1.00	0.00
ATOM 972	O	GLN	A	65	-6.651	5.006	-3.924	1.00	0.00

ATOM 973	CB	GLN A	65	-6.900	7.656	-2.891	1.00	0.00
ATOM 974	CG	GLN A	65	-8.355	8.086	-2.971	1.00	0.00
ATOM 975	CD	GLN A	65	-8.514	9.527	-3.413	1.00	0.00
ATOM 976	OE1	GLN A	65	-8.811	10.408	-2.606	1.00	0.00
ATOM 977	NE2	GLN A	65	-8.319	9.774	-4.703	1.00	0.00
ATOM 978	H	GLN A	65	-4.571	6.677	-2.137	1.00	0.00
ATOM 979	HA	GLN A	65	-7.311	6.510	-1.131	1.00	0.00
ATOM 980	1HB	GLN A	65	-6.322	8.485	-2.507	1.00	0.00
ATOM 981	2HB	GLN A	65	-6.560	7.425	-3.889	1.00	0.00
ATOM 982	1HG	GLN A	65	-8.866	7.450	-3.678	1.00	0.00
ATOM 983	2HG	GLN A	65	-8.804	7.972	-1.995	1.00	0.00
ATOM 984	1HE2	GLN A	65	-8.085	9.023	-5.289	1.00	0.00
ATOM 985	2HE2	GLN A	65	-8.415	10.697	-5.018	1.00	0.00
ATOM 986	N	VAL A	66	-7.707	4.247	-2.087	1.00	0.00
ATOM 987	CA	VAL A	66	-8.096	2.984	-2.701	1.00	0.00
ATOM 988	C	VAL A	66	-9.217	3.190	-3.717	1.00	0.00
ATOM 989	O	VAL A	66	-10.362	3.453	-3.349	1.00	0.00
ATOM 990	CB	VAL A	66	-8.549	1.959	-1.641	1.00	0.00
ATOM 991	CG1	VAL A	66	-9.761	2.473	-0.877	1.00	0.00
ATOM 992	CG2	VAL A	66	-8.844	0.612	-2.285	1.00	0.00
ATOM 993	H	VAL A	66	-7.964	4.427	-1.158	1.00	0.00
ATOM 994	HA	VAL A	66	-7.232	2.583	-3.212	1.00	0.00
ATOM 995	HB	VAL A	66	-7.742	1.824	-0.935	1.00	0.00
ATOM 996	1HG1	VAL A	66	-9.727	2.109	0.139	1.00	0.00
ATOM 997	2HG1	VAL A	66	-10.663	2.122	-1.356	1.00	0.00
ATOM 998	3HG1	VAL A	66	-9.752	3.553	-0.874	1.00	0.00
ATOM 999	1HG2	VAL A	66	-9.745	0.197	-1.858	1.00	0.00

ATOM 1000	2HG2	VAL	A	66	-8.018	-0.060	-2.107	1.00	0.00
ATOM 1001	3HG2	VAL	A	66	-8.978	0.743	-3.350	1.00	0.00
ATOM 1002	N	LEU	A	67	-8.877	3.070	-4.996	1.00	0.00
ATOM 1003	CA	LEU	A	67	-9.853	3.243	-6.066	1.00	0.00
ATOM 1004	C	LEU	A	67	-10.861	2.098	-6.073	1.00	0.00
ATOM 1005	O	LEU	A	67	-12.049	2.302	-5.822	1.00	0.00
ATOM 1006	CB	LEU	A	67	-9.147	3.325	-7.421	1.00	0.00
ATOM 1007	CG	LEU	A	67	-7.931	4.253	-7.464	1.00	0.00
ATOM 1008	CD1	LEU	A	67	-7.308	4.252	-8.851	1.00	0.00
ATOM 1009	CD2	LEU	A	67	-8.324	5.663	-7.054	1.00	0.00
ATOM 1010	H	LEU	A	67	-7.948	2.860	-5.227	1.00	0.00
ATOM 1011	HA	LEU	A	67	-10.379	4.169	-5.888	1.00	0.00
ATOM 1012	1HB	LEU	A	67	-8.826	2.331	-7.696	1.00	0.00
ATOM 1013	2HB	LEU	A	67	-9.861	3.670	-8.154	1.00	0.00
ATOM 1014	HG	LEU	A	67	-7.189	3.895	-6.765	1.00	0.00
ATOM 1015	1HD1	LEU	A	67	-7.657	5.112	-9.403	1.00	0.00
ATOM 1016	2HD1	LEU	A	67	-7.591	3.351	-9.373	1.00	0.00
ATOM 1017	3HD1	LEU	A	67	-6.232	4.295	-8.762	1.00	0.00
ATOM 1018	1HD2	LEU	A	67	-8.173	5.786	-5.992	1.00	0.00
ATOM 1019	2HD2	LEU	A	67	-9.364	5.831	-7.291	1.00	0.00
ATOM 1020	3HD2	LEU	A	67	-7.714	6.377	-7.589	1.00	0.00
ATOM 1021	N	ALA	A	68	-10.378	0.893	-6.361	1.00	0.00
ATOM 1022	CA	ALA	A	68	-11.238	-0.284	-6.399	1.00	0.00
ATOM 1023	C	ALA	A	68	-10.413	-1.564	-6.492	1.00	0.00
ATOM 1024	O	ALA	A	68	-9.183	-1.526	-6.455	1.00	0.00
ATOM 1025	CB	ALA	A	68	-12.205	-0.192	-7.569	1.00	0.00
ATOM 1026	H	ALA	A	68	-9.422	0.794	-6.550	1.00	0.00



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ATOM	1027	HA	ALA	A	68	-11.815	-0.306	-5.486	1.00	0.00
ATOM	1028	1HB	ALA	A	68	-12.307	0.840	-7.871	1.00	0.00
ATOM	1029	2HB	ALA	A	68	-13.168	-0.577	-7.270	1.00	0.00
ATOM	1030	3HB	ALA	A	68	-11.825	-0.775	-8.397	1.00	0.00
ATOM	1031	N	PHE	A	69	-11.098	-2.696	-6.614	1.00	0.00
ATOM	1032	CA	PHE	A	69	-10.430	-3.988	-6.713	1.00	0.00
ATOM	1033	C	PHE	A	69	-10.654	-4.611	-8.088	1.00	0.00
ATOM	1034	O	PHE	A	69	-11.768	-4.594	-8.613	1.00	0.00
ATOM	1035	CB	PHE	A	69	-10.938	-4.936	-5.625	1.00	0.00
ATOM	1036	CG	PHE	A	69	-10.562	-4.510	-4.234	1.00	0.00
ATOM	1037	CD1	PHE	A	69	-9.231	-4.437	-3.853	1.00	0.00
ATOM	1038	CD2	PHE	A	69	-11.539	-4.184	-3.307	1.00	0.00
ATOM	1039	CE1	PHE	A	69	-8.883	-4.045	-2.574	1.00	0.00
ATOM	1040	CE2	PHE	A	69	-11.197	-3.793	-2.027	1.00	0.00
ATOM	1041	CZ	PHE	A	69	-9.867	-3.724	-1.660	1.00	0.00
ATOM	1042	H	PHE	A	69	-12.078	-2.661	-6.637	1.00	0.00
ATOM	1043	HA	PHE	A	69	-9.372	-3.827	-6.572	1.00	0.00
ATOM	1044	1HB	PHE	A	69	-12.015	-4.987	-5.675	1.00	0.00
ATOM	1045	2HB	PHE	A	69	-10.528	-5.920	-5.794	1.00	0.00
ATOM	1046	HD1	PHE	A	69	-8.462	-4.688	-4.567	1.00	0.00
ATOM	1047	HD2	PHE	A	69	-12.579	-4.239	-3.593	1.00	0.00
ATOM	1048	HE1	PHE	A	69	-7.842	-3.993	-2.290	1.00	0.00
ATOM	1049	HE2	PHE	A	69	-11.968	-3.542	-1.313	1.00	0.00
ATOM	1050	HZ	PHE	A	69	-9.597	-3.417	-0.660	1.00	0.00
ATOM	1051	N	ARG	A	70	-9.590	-5.159	-8.665	1.00	0.00
ATOM	1052	CA	ARG	A	70	-9.672	-5.786	-9.978	1.00	0.00
ATOM	1053	C	ARG	A	70	-10.038	-7.263	-9.854	1.00	0.00

ATOM	1054	O	ARG	A	70	-9.449	-7.993	-9.058	1.00	0.00
ATOM	1055	CB	ARG	A	70	-8.343	-5.640	-10.722	1.00	0.00
ATOM	1056	CG	ARG	A	70	-7.744	-4.246	-10.629	1.00	0.00
ATOM	1057	CD	ARG	A	70	-8.717	-3.187	-11.121	1.00	0.00
ATOM	1058	NE	ARG	A	70	-8.917	-3.257	-12.566	1.00	0.00
ATOM	1059	CZ	ARG	A	70	-8.054	-2.775	-13.458	1.00	0.00
ATOM	1060	NH1	ARG	A	70	-6.933	-2.188	-13.058	1.00	0.00
ATOM	1061	NH2	ARG	A	70	-8.312	-2.881	-14.755	1.00	0.00
ATOM	1062	H	ARG	A	70	-8.729	-5.141	-8.196	1.00	0.00
ATOM	1063	HA	ARG	A	70	-10.446	-5.282	-10.539	1.00	0.00
ATOM	1064	1HB	ARG	A	70	-7.634	-6.341	-10.308	1.00	0.00
ATOM	1065	2HB	ARG	A	70	-8.500	-5.872	-11.765	1.00	0.00
ATOM	1066	1HG	ARG	A	70	-7.494	-4.039	-9.599	1.00	0.00
ATOM	1067	2HG	ARG	A	70	-6.849	-4.208	-11.233	1.00	0.00
ATOM	1068	1HD	ARG	A	70	-9.667	-3.333	-10.628	1.00	0.00
ATOM	1069	2HD	ARG	A	70	-8.327	-2.212	-10.867	1.00	0.00
ATOM	1070	HE	ARG	A	70	-9.737	-3.685	-12.890	1.00	0.00
ATOM	1071	1HH1	ARG	A	70	-6.733	-2.104	-12.082	1.00	0.00
ATOM	1072	2HH1	ARG	A	70	-6.288	-1.828	-13.733	1.00	0.00
ATOM	1073	1HH2	ARG	A	70	-9.155	-3.324	-15.062	1.00	0.00
ATOM	1074	2HH2	ARG	A	70	-7.664	-2.520	-15.425	1.00	0.00
ATOM	1075	N	SER	A	71	-11.014	-7.693	-10.646	1.00	0.00
ATOM	1076	CA	SER	A	71	-11.460	-9.082	-10.625	1.00	0.00
ATOM	1077	C	SER	A	71	-10.632	-9.934	-11.582	1.00	0.00
ATOM	1078	O	SER	A	71	-10.709	-9.771	-12.799	1.00	0.00
ATOM	1079	CB	SER	A	71	-12.941	-9.171	-10.996	1.00	0.00
ATOM	1080	OG	SER	A	71	-13.459	-10.461	-10.722	1.00	0.00

ATOM 1081	H	SER A	71	-11.446	-7.062	-11.260	1.00	0.00
ATOM 1082	HA	SER A	71	-11.325	-9.457	-9.621	1.00	0.00
ATOM 1083	1HB	SER A	71	-13.497	-8.444	-10.423	1.00	0.00
ATOM 1084	2HB	SER A	71	-13.058	-8.965	-12.050	1.00	0.00
ATOM 1085	HG	SER A	71	-14.419	-10.429	-10.730	1.00	0.00
ATOM 1086	N	VAL A	72	-9.838	-10.841	-11.023	1.00	0.00
ATOM 1087	CA	VAL A	72	-8.995	-11.718	-11.827	1.00	0.00
ATOM 1088	C	VAL A	72	-9.831	-12.755	-12.568	1.00	0.00
ATOM 1089	O	VAL A	72	-11.055	-12.780	-12.449	1.00	0.00
ATOM 1090	CB	VAL A	72	-7.950	-12.444	-10.960	1.00	0.00
ATOM 1091	CG1	VAL A	72	-6.928	-11.457	-10.416	1.00	0.00
ATOM 1092	CG2	VAL A	72	-8.628	-13.200	-9.828	1.00	0.00
ATOM 1093	H	VAL A	72	-9.819	-10.924	-10.047	1.00	0.00
ATOM 1094	HA	VAL A	72	-8.473	-11.107	-12.549	1.00	0.00
ATOM 1095	HB	VAL A	72	-7.430	-13.158	-11.581	1.00	0.00
ATOM 1096	1HG1	VAL A	72	-6.750	-10.683	-11.147	1.00	0.00
ATOM 1097	2HG1	VAL A	72	-6.004	-11.974	-10.208	1.00	0.00
ATOM 1098	3HG1	VAL A	72	-7.306	-11.013	-9.506	1.00	0.00
ATOM 1099	1HG2	VAL A	72	-9.017	-12.496	-9.107	1.00	0.00
ATOM 1100	2HG2	VAL A	72	-7.909	-13.847	-9.346	1.00	0.00
ATOM 1101	3HG2	VAL A	72	-9.437	-13.793	-10.225	1.00	0.00
ATOM 1102	N	SER A	73	-9.161	-13.609	-13.335	1.00	0.00
ATOM 1103	CA	SER A	73	-9.842	-14.650	-14.097	1.00	0.00
ATOM 1104	C	SER A	73	-9.048	-15.951	-14.073	1.00	0.00
ATOM 1105	O	SER A	73	-7.852	-15.956	-13.780	1.00	0.00
ATOM 1106	CB	SER A	73	-10.056	-14.196	-15.541	1.00	0.00
ATOM 1107	OG	SER A	73	-10.224	-12.792	-15.616	1.00	0.00

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ATOM 1108	H	SER A	73	-8.184	-13.539	-13.390	1.00	0.00
ATOM 1109	HA	SER A	73	-10.804	-14.821	-13.637	1.00	0.00
ATOM 1110	1HB	SER A	73	-9.196	-14.475	-16.134	1.00	0.00
ATOM 1111	2HB	SER A	73	-10.938	-14.674	-15.941	1.00	0.00
ATOM 1112	N	ASN A	74	-9.720	-17.055	-14.383	1.00	0.00
ATOM 1113	CA	ASN A	74	-9.078	-18.364	-14.398	1.00	0.00
ATOM 1114	C	ASN A	74	-8.530	-18.718	-13.019	1.00	0.00
ATOM 1115	O	ASN A	74	-7.488	-19.363	-12.901	1.00	0.00
ATOM 1116	CB	ASN A	74	-7.949	-18.389	-15.430	1.00	0.00
ATOM 1117	CG	ASN A	74	-8.434	-18.794	-16.808	1.00	0.00
ATOM 1118	OD1	ASN A	74	-9.627	-18.728	-17.102	1.00	0.00
ATOM 1119	ND2	ASN A	74	-7.508	-19.216	-17.660	1.00	0.00
ATOM 1120	H	ASN A	74	-10.672	-16.987	-14.608	1.00	0.00
ATOM 1121	HA	ASN A	74	-9.822	-19.095	-14.674	1.00	0.00
ATOM 1122	1HB	ASN A	74	-7.510	-17.405	-15.498	1.00	0.00
ATOM 1123	2HB	ASN A	74	-7.194	-19.093	-15.112	1.00	0.00
ATOM 1124	1HD2	ASN A	74	-6.576	-19.242	-17.357	1.00	0.00
ATOM 1125	2HD2	ASN A	74	-7.794	-19.484	-18.559	1.00	0.00
ATOM 1126	N	ASN A	75	-9.239	-18.294	-11.978	1.00	0.00
ATOM 1127	CA	ASN A	75	-8.822	-18.566	-10.607	1.00	0.00
ATOM 1128	C	ASN A	75	-9.850	-18.039	-9.610	1.00	0.00
ATOM 1129	O	ASN A	75	-10.358	-18.785	-8.773	1.00	0.00
ATOM 1130	CB	ASN A	75	-7.457	-17.936	-10.332	1.00	0.00
ATOM 1131	CG	ASN A	75	-6.754	-18.570	-9.148	1.00	0.00
ATOM 1132	OD1	ASN A	75	-6.770	-19.791	-8.983	1.00	0.00
ATOM 1133	ND2	ASN A	75	-6.134	-17.744	-8.315	1.00	0.00
ATOM 1134	H	ASN A	75	-10.062	-17.785	-12.135	1.00	0.00

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ATOM 1135	HA	ASN A	75	-8.744	-19.638	-10.492	1.00	0.00
ATOM 1136	1HB	ASN A	75	-6.830	-18.053	-11.203	1.00	0.00
ATOM 1137	2HB	ASN A	75	-7.589	-16.883	-10.127	1.00	0.00
ATOM 1138	1HD2	ASN A	75	-6.163	-16.783	-8.508	1.00	0.00
ATOM 1139	2HD2	ASN A	75	-5.671	-18.127	-7.541	1.00	0.00
ATOM 1140	N	ASN A	76	-10.149	-16.748	-9.705	1.00	0.00
ATOM 1141	CA	ASN A	76	-11.115	-16.119	-8.810	1.00	0.00
ATOM 1142	C	ASN A	76	-10.668	-16.236	-7.355	1.00	0.00
ATOM 1143	O	ASN A	76	-11.492	-16.237	-6.442	1.00	0.00
ATOM 1144	CB	ASN A	76	-12.493	-16.757	-8.986	1.00	0.00
ATOM 1145	CG	ASN A	76	-13.325	-16.056	-10.042	1.00	0.00
ATOM 1146	OD1	ASN A	76	-14.506	-15.779	-9.838	1.00	0.00
ATOM 1147	ND2	ASN A	76	-12.707	-15.765	-11.183	1.00	0.00
ATOM 1148	H	ASN A	76	-9.710	-16.204	-10.392	1.00	0.00
ATOM 1149	HA	ASN A	76	-11.176	-15.073	-9.071	1.00	0.00
ATOM 1150	1HB	ASN A	76	-12.371	-17.790	-9.277	1.00	0.00
ATOM 1151	2HB	ASN A	76	-13.026	-16.711	-8.047	1.00	0.00
ATOM 1152	1HD2	ASN A	76	-11.765	-16.016	-11.276	1.00	0.00
ATOM 1153	2HD2	ASN A	76	-13.221	-15.312	-11.884	1.00	0.00
ATOM 1154	N	ASN A	77	-9.358	-16.337	-7.149	1.00	0.00
ATOM 1155	CA	ASN A	77	-8.802	-16.457	-5.805	1.00	0.00
ATOM 1156	C	ASN A	77	-7.984	-15.220	-5.434	1.00	0.00
ATOM 1157	O	ASN A	77	-7.781	-14.932	-4.255	1.00	0.00
ATOM 1158	CB	ASN A	77	-7.929	-17.708	-5.701	1.00	0.00
ATOM 1159	CG	ASN A	77	-7.739	-18.164	-4.268	1.00	0.00
ATOM 1160	OD1	ASN A	77	-6.612	-18.344	-3.806	1.00	0.00
ATOM 1161	ND2	ASN A	77	-8.843	-18.354	-3.556	1.00	0.00

ATOM	1162	H	ASN	A	77	-8.751	-16.332	-7.918	1.00	0.00
ATOM	1163	HA	ASN	A	77	-9.626	-16.547	-5.113	1.00	0.00
ATOM	1164	1HB	ASN	A	77	-8.393	-18.510	-6.256	1.00	0.00
ATOM	1165	2HB	ASN	A	77	-6.957	-17.497	-6.125	1.00	0.00
ATOM	1166	1HD2	ASN	A	77	-9.707	-18.191	-3.989	1.00	0.00
ATOM	1167	2HD2	ASN	A	77	-8.750	-18.649	-2.626	1.00	0.00
ATOM	1168	N	HIS	A	78	-7.516	-14.494	-6.445	1.00	0.00
ATOM	1169	CA	HIS	A	78	-6.723	-13.292	-6.217	1.00	0.00
ATOM	1170	C	HIS	A	78	-7.559	-12.037	-6.446	1.00	0.00
ATOM	1171	O	HIS	A	78	-8.693	-12.112	-6.918	1.00	0.00
ATOM	1172	CB	HIS	A	78	-5.502	-13.279	-7.138	1.00	0.00
ATOM	1173	CG	HIS	A	78	-4.773	-14.585	-7.186	1.00	0.00
ATOM	1174	ND1	HIS	A	78	-4.116	-15.041	-8.311	1.00	0.00
ATOM	1175	CD2	HIS	A	78	-4.596	-15.537	-6.239	1.00	0.00
ATOM	1176	CE1	HIS	A	78	-3.570	-16.217	-8.053	1.00	0.00
ATOM	1177	NE2	HIS	A	78	-3.846	-16.540	-6.803	1.00	0.00
ATOM	1178	H	HIS	A	78	-7.709	-14.772	-7.364	1.00	0.00
ATOM	1179	HA	HIS	A	78	-6.388	-13.306	-5.191	1.00	0.00
ATOM	1180	1HB	HIS	A	78	-5.819	-13.039	-8.142	1.00	0.00
ATOM	1181	2HB	HIS	A	78	-4.809	-12.523	-6.795	1.00	0.00
ATOM	1182	HD1	HIS	A	78	-4.061	-14.573	-9.170	1.00	0.00
ATOM	1183	HD2	HIS	A	78	-4.976	-15.512	-5.227	1.00	0.00
ATOM	1184	HE1	HIS	A	78	-2.995	-16.812	-8.748	1.00	0.00
ATOM	1185	HE2	HIS	A	78	-3.483	-17.315	-6.328	1.00	0.00
ATOM	1186	N	THR	A	79	-6.990	-10.884	-6.109	1.00	0.00
ATOM	1187	CA	THR	A	79	-7.683	-9.611	-6.279	1.00	0.00
ATOM	1188	C	THR	A	79	-6.689	-8.482	-6.534	1.00	0.00

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ATOM	1189	O	THR	A	79	-5.933	-8.095	-5.643	1.00	0.00
ATOM	1190	CB	THR	A	79	-8.526	-9.296	-5.041	1.00	0.00
ATOM	1191	OG1	THR	A	79	-9.468	-10.326	-4.802	1.00	0.00
ATOM	1192	CG2	THR	A	79	-9.287	-7.993	-5.151	1.00	0.00
ATOM	1193	H	THR	A	79	-6.083	-10.889	-5.739	1.00	0.00
ATOM	1194	HA	THR	A	79	-8.335	-9.701	-7.134	1.00	0.00
ATOM	1195	HB	THR	A	79	-7.873	-9.227	-4.182	1.00	0.00
ATOM	1196	HG1	THR	A	79	-10.136	-10.316	-5.491	1.00	0.00
ATOM	1197	1HG2	THR	A	79	-9.245	-7.636	-6.169	1.00	0.00
ATOM	1198	2HG2	THR	A	79	-8.844	-7.260	-4.494	1.00	0.00
ATOM	1199	3HG2	THR	A	79	-10.318	-8.153	-4.869	1.00	0.00
ATOM	1200	N	GLY	A	80	-6.697	-7.959	-7.755	1.00	0.00
ATOM	1201	CA	GLY	A	80	-5.793	-6.880	-8.105	1.00	0.00
ATOM	1202	C	GLY	A	80	-6.109	-5.596	-7.363	1.00	0.00
ATOM	1203	O	GLY	A	80	-7.151	-4.981	-7.591	1.00	0.00
ATOM	1204	H	GLY	A	80	-7.321	-8.309	-8.424	1.00	0.00
ATOM	1205	1HA	GLY	A	80	-4.783	-7.181	-7.868	1.00	0.00
ATOM	1206	2HA	GLY	A	80	-5.862	-6.696	-9.166	1.00	0.00
ATOM	1207	N	VAL	A	81	-5.208	-5.191	-6.473	1.00	0.00
ATOM	1208	CA	VAL	A	81	-5.400	-3.973	-5.697	1.00	0.00
ATOM	1209	C	VAL	A	81	-5.188	-2.732	-6.558	1.00	0.00
ATOM	1210	O	VAL	A	81	-4.212	-2.638	-7.301	1.00	0.00
ATOM	1211	CB	VAL	A	81	-4.440	-3.918	-4.490	1.00	0.00
ATOM	1212	CG1	VAL	A	81	-4.698	-2.675	-3.649	1.00	0.00
ATOM	1213	CG2	VAL	A	81	-4.572	-5.178	-3.649	1.00	0.00
ATOM	1214	H	VAL	A	81	-4.397	-5.725	-6.336	1.00	0.00
ATOM	1215	HA	VAL	A	81	-6.413	-3.972	-5.323	1.00	0.00

ATOM 1216	HB	VAL	A	81	-3.428	-3.868	-4.865	1.00	0.00
ATOM 1217	1HG1	VAL	A	81	-5.365	-2.012	-4.178	1.00	0.00
ATOM 1218	2HG1	VAL	A	81	-3.764	-2.168	-3.458	1.00	0.00
ATOM 1219	3HG1	VAL	A	81	-5.149	-2.963	-2.709	1.00	0.00
ATOM 1220	1HG2	VAL	A	81	-5.572	-5.239	-3.245	1.00	0.00
ATOM 1221	2HG2	VAL	A	81	-3.857	-5.148	-2.840	1.00	0.00
ATOM 1222	3HG2	VAL	A	81	-4.381	-6.045	-4.265	1.00	0.00
ATOM 1223	N	ASP	A	82	-6.108	-1.781	-6.445	1.00	0.00
ATOM 1224	CA	ASP	A	82	-6.024	-0.539	-7.205	1.00	0.00
ATOM 1225	C	ASP	A	82	-6.015	0.660	-6.263	1.00	0.00
ATOM 1226	O	ASP	A	82	-7.032	1.329	-6.080	1.00	0.00
ATOM 1227	CB	ASP	A	82	-7.198	-0.435	-8.182	1.00	0.00
ATOM 1228	CG	ASP	A	82	-6.777	0.101	-9.537	1.00	0.00
ATOM 1229	OD1	ASP	A	82	-7.225	1.208	-9.902	1.00	0.00
ATOM 1230	OD2	ASP	A	82	-6.000	-0.587	-10.231	1.00	0.00
ATOM 1231	H	ASP	A	82	-6.860	-1.914	-5.832	1.00	0.00
ATOM 1232	HA	ASP	A	82	-5.101	-0.552	-7.763	1.00	0.00
ATOM 1233	1HB	ASP	A	82	-7.629	-1.415	-8.323	1.00	0.00
ATOM 1234	2HB	ASP	A	82	-7.946	0.226	-7.770	1.00	0.00
ATOM 1235	N	SER	A	83	-4.859	0.921	-5.661	1.00	0.00
ATOM 1236	CA	SER	A	83	-4.716	2.031	-4.729	1.00	0.00
ATOM 1237	C	SER	A	83	-3.983	3.201	-5.378	1.00	0.00
ATOM 1238	O	SER	A	83	-3.532	3.109	-6.519	1.00	0.00
ATOM 1239	CB	SER	A	83	-3.969	1.572	-3.476	1.00	0.00
ATOM 1240	OG	SER	A	83	-3.062	0.525	-3.776	1.00	0.00
ATOM 1241	H	SER	A	83	-4.085	0.348	-5.844	1.00	0.00
ATOM 1242	HA	SER	A	83	-5.705	2.355	-4.448	1.00	0.00



ATOM	1243	1HB	SER	A	83	-3.417	2.401	-3.064	1.00	0.00
ATOM	1244	2HB	SER	A	83	-4.681	1.216	-2.746	1.00	0.00
ATOM	1245	HG	SER	A	83	-3.552	-0.266	-4.010	1.00	0.00
ATOM	1246	N	LEU	A	84	-3.872	4.302	-4.640	1.00	0.00
ATOM	1247	CA	LEU	A	84	-3.198	5.495	-5.141	1.00	0.00
ATOM	1248	C	LEU	A	84	-2.266	6.078	-4.083	1.00	0.00
ATOM	1249	O	LEU	A	84	-2.715	6.727	-3.138	1.00	0.00
ATOM	1250	CB	LEU	A	84	-4.230	6.545	-5.561	1.00	0.00
ATOM	1251	CG	LEU	A	84	-3.714	7.626	-6.514	1.00	0.00
ATOM	1252	CD1	LEU	A	84	-2.616	8.445	-5.851	1.00	0.00
ATOM	1253	CD2	LEU	A	84	-3.211	7.001	-7.805	1.00	0.00
ATOM	1254	H	LEU	A	84	-4.256	4.314	-3.739	1.00	0.00
ATOM	1255	HA	LEU	A	84	-2.614	5.211	-6.003	1.00	0.00
ATOM	1256	1HB	LEU	A	84	-5.054	6.036	-6.040	1.00	0.00
ATOM	1257	2HB	LEU	A	84	-4.600	7.031	-4.670	1.00	0.00
ATOM	1258	HG	LEU	A	84	-4.525	8.296	-6.759	1.00	0.00
ATOM	1259	1HD1	LEU	A	84	-2.748	8.423	-4.780	1.00	0.00
ATOM	1260	2HD1	LEU	A	84	-2.668	9.465	-6.201	1.00	0.00
ATOM	1261	3HD1	LEU	A	84	-1.654	8.026	-6.104	1.00	0.00
ATOM	1262	1HD2	LEU	A	84	-3.446	7.652	-8.636	1.00	0.00
ATOM	1263	2HD2	LEU	A	84	-3.690	6.044	-7.952	1.00	0.00
ATOM	1264	3HD2	LEU	A	84	-2.142	6.865	-7.747	1.00	0.00
ATOM	1265	N	CYS	A	85	-0.966	5.849	-4.249	1.00	0.00
ATOM	1266	CA	CYS	A	85	0.023	6.360	-3.308	1.00	0.00
ATOM	1267	C	CYS	A	85	0.090	7.883	-3.379	1.00	0.00
ATOM	1268	O	CYS	A	85	1.010	8.449	-3.966	1.00	0.00
ATOM	1269	CB	CYS	A	85	1.400	5.756	-3.598	1.00	0.00

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ATOM	1270	SG	CYS	A	85	1.643	4.110	-2.890	1.00	0.00
ATOM	1271	H	CYS	A	85	-0.666	5.329	-5.024	1.00	0.00
ATOM	1272	HA	CYS	A	85	-0.285	6.070	-2.314	1.00	0.00
ATOM	1273	1HB	CYS	A	85	1.533	5.677	-4.665	1.00	0.00
ATOM	1274	2HB	CYS	A	85	2.165	6.404	-3.193	1.00	0.00
ATOM	1275	HG	CYS	A	85	2.328	3.668	-3.397	1.00	0.00
ATOM	1276	N	ASN	A	86	-0.902	8.537	-2.782	1.00	0.00
ATOM	1277	CA	ASN	A	86	-0.972	9.995	-2.777	1.00	0.00
ATOM	1278	C	ASN	A	86	0.130	10.596	-1.910	1.00	0.00
ATOM	1279	O	ASN	A	86	0.513	10.024	-0.890	1.00	0.00
ATOM	1280	CB	ASN	A	86	-2.341	10.455	-2.274	1.00	0.00
ATOM	1281	CG	ASN	A	86	-3.246	10.922	-3.397	1.00	0.00
ATOM	1282	OD1	ASN	A	86	-3.141	12.056	-3.864	1.00	0.00
ATOM	1283	ND2	ASN	A	86	-4.144	10.047	-3.837	1.00	0.00
ATOM	1284	H	ASN	A	86	-1.609	8.026	-2.336	1.00	0.00
ATOM	1285	HA	ASN	A	86	-0.839	10.336	-3.794	1.00	0.00
ATOM	1286	1HB	ASN	A	86	-2.826	9.634	-1.766	1.00	0.00
ATOM	1287	2HB	ASN	A	86	-2.209	11.273	-1.580	1.00	0.00
ATOM	1288	1HD2	ASN	A	86	-4.173	9.162	-3.418	1.00	0.00
ATOM	1289	2HD2	ASN	A	86	-4.742	10.324	-4.562	1.00	0.00
ATOM	1290	N	PHE	A	87	0.630	11.757	-2.321	1.00	0.00
ATOM	1291	CA	PHE	A	87	1.684	12.441	-1.578	1.00	0.00
ATOM	1292	C	PHE	A	87	1.356	13.922	-1.409	1.00	0.00
ATOM	1293	O	PHE	A	87	0.703	14.524	-2.261	1.00	0.00
ATOM	1294	CB	PHE	A	87	3.028	12.277	-2.289	1.00	0.00
ATOM	1295	CG	PHE	A	87	3.779	11.046	-1.870	1.00	0.00
ATOM	1296	CD1	PHE	A	87	4.846	11.135	-0.990	1.00	0.00

ATOM	1297	CD2	PHE	A	87	3.415	9.800	-2.352	1.00	0.00
ATOM	1298	CE1	PHE	A	87	5.536	10.005	-0.600	1.00	0.00
ATOM	1299	CE2	PHE	A	87	4.102	8.664	-1.966	1.00	0.00
ATOM	1300	CZ	PHE	A	87	5.163	8.767	-1.088	1.00	0.00
ATOM	1301	H	PHE	A	87	0.281	12.166	-3.141	1.00	0.00
ATOM	1302	HA	PHE	A	87	1.747	11.986	-0.601	1.00	0.00
ATOM	1303	1HB	PHE	A	87	2.860	12.217	-3.354	1.00	0.00
ATOM	1304	2HB	PHE	A	87	3.647	13.136	-2.075	1.00	0.00
ATOM	1305	HD1	PHE	A	87	5.137	12.103	-0.607	1.00	0.00
ATOM	1306	HD2	PHE	A	87	2.585	9.719	-3.038	1.00	0.00
ATOM	1307	HE1	PHE	A	87	6.366	10.087	0.086	1.00	0.00
ATOM	1308	HE2	PHE	A	87	3.807	7.698	-2.350	1.00	0.00
ATOM	1309	HZ	PHE	A	87	5.701	7.882	-0.782	1.00	0.00
ATOM	1310	N	SER	A	88	1.812	14.501	-0.302	1.00	0.00
ATOM	1311	CA	SER	A	88	1.567	15.910	-0.016	1.00	0.00
ATOM	1312	C	SER	A	88	2.087	16.799	-1.145	1.00	0.00
ATOM	1313	O	SER	A	88	3.010	16.422	-1.866	1.00	0.00
ATOM	1314	CB	SER	A	88	2.228	16.305	1.305	1.00	0.00
ATOM	1315	OG	SER	A	88	1.329	16.155	2.391	1.00	0.00
ATOM	1316	H	SER	A	88	2.325	13.966	0.340	1.00	0.00
ATOM	1317	HA	SER	A	88	0.499	16.048	0.071	1.00	0.00
ATOM	1318	1HB	SER	A	88	3.088	15.677	1.477	1.00	0.00
ATOM	1319	2HB	SER	A	88	2.541	17.338	1.253	1.00	0.00
ATOM	1320	HG	SER	A	88	1.750	16.459	3.199	1.00	0.00
ATOM	1321	N	PRO	A	89	1.498	17.996	-1.312	1.00	0.00
ATOM	1322	CA	PRO	A	89	1.908	18.938	-2.358	1.00	0.00
ATOM	1323	C	PRO	A	89	3.371	19.345	-2.229	1.00	0.00

ATOM 1324	O	PRO A	89	4.039	19.624	-3.225	1.00	0.00
ATOM 1325	CB	PRO A	89	0.997	20.150	-2.141	1.00	0.00
ATOM 1326	CG	PRO A	89	-0.155	19.636	-1.346	1.00	0.00
ATOM 1327	CD	PRO A	89	0.391	18.524	-0.497	1.00	0.00
ATOM 1328	HA	PRO A	89	1.736	18.533	-3.342	1.00	0.00
ATOM 1329	1HB	PRO A	89	1.538	20.911	-1.605	1.00	0.00
ATOM 1330	2HB	PRO A	89	0.673	20.536	-3.097	1.00	0.00
ATOM 1331	1HG	PRO A	89	-0.551	20.424	-0.723	1.00	0.00
ATOM 1332	2HG	PRO A	89	-0.920	19.260	-2.009	1.00	0.00
ATOM 1333	1HD	PRO A	89	0.754	18.911	0.445	1.00	0.00
ATOM 1334	2HD	PRO A	89	-0.363	17.770	-0.333	1.00	0.00
ATOM 1335	N	LEU A	90	3.864	19.378	-0.995	1.00	0.00
ATOM 1336	CA	LEU A	90	5.249	19.751	-0.735	1.00	0.00
ATOM 1337	C	LEU A	90	6.210	18.815	-1.459	1.00	0.00
ATOM 1338	O	LEU A	90	7.301	19.219	-1.864	1.00	0.00
ATOM 1339	CB	LEU A	90	5.532	19.727	0.768	1.00	0.00
ATOM 1340	CG	LEU A	90	4.978	20.920	1.550	1.00	0.00
ATOM 1341	CD1	LEU A	90	3.510	20.702	1.885	1.00	0.00
ATOM 1342	CD2	LEU A	90	5.787	21.148	2.817	1.00	0.00
ATOM 1343	H	LEU A	90	3.282	19.146	-0.242	1.00	0.00
ATOM 1344	HA	LEU A	90	5.397	20.755	-1.103	1.00	0.00
ATOM 1345	1HB	LEU A	90	5.104	18.824	1.179	1.00	0.00
ATOM 1346	2HB	LEU A	90	6.601	19.698	0.913	1.00	0.00
ATOM 1347	HG	LEU A	90	5.052	21.808	0.940	1.00	0.00
ATOM 1348	1HD1	LEU A	90	3.391	19.751	2.383	1.00	0.00
ATOM 1349	2HD1	LEU A	90	2.928	20.707	0.976	1.00	0.00
ATOM 1350	3HD1	LEU A	90	3.169	21.494	2.536	1.00	0.00

ATOM	1351	1HD2	LEU	A	90	5.294	20.670	3.651	1.00	0.00
ATOM	1352	2HD2	LEU	A	90	5.870	22.207	3.006	1.00	0.00
ATOM	1353	3HD2	LEU	A	90	6.775	20.727	2.694	1.00	0.00
ATOM	1354	N	ALA	A	91	5.799	17.562	-1.620	1.00	0.00
ATOM	1355	CA	ALA	A	91	6.623	16.568	-2.297	1.00	0.00
ATOM	1356	C	ALA	A	91	6.796	16.913	-3.772	1.00	0.00
ATOM	1357	O	ALA	A	91	5.837	17.282	-4.450	1.00	0.00
ATOM	1358	CB	ALA	A	91	6.013	15.183	-2.144	1.00	0.00
ATOM	1359	H	ALA	A	91	4.920	17.298	-1.276	1.00	0.00
ATOM	1360	HA	ALA	A	91	7.595	16.562	-1.823	1.00	0.00
ATOM	1361	1HB	ALA	A	91	6.133	14.632	-3.065	1.00	0.00
ATOM	1362	2HB	ALA	A	91	4.962	15.276	-1.914	1.00	0.00
ATOM	1363	3HB	ALA	A	91	6.511	14.657	-1.342	1.00	0.00
ATOM	1364	N	ARG	A	92	8.025	16.793	-4.264	1.00	0.00
ATOM	1365	CA	ARG	A	92	8.322	17.093	-5.659	1.00	0.00
ATOM	1366	C	ARG	A	92	9.586	16.369	-6.114	1.00	0.00
ATOM	1367	O	ARG	A	92	10.345	16.882	-6.936	1.00	0.00
ATOM	1368	CB	ARG	A	92	8.484	18.602	-5.854	1.00	0.00
ATOM	1369	CG	ARG	A	92	7.787	19.133	-7.097	1.00	0.00
ATOM	1370	CD	ARG	A	92	8.781	19.662	-8.122	1.00	0.00
ATOM	1371	NE	ARG	A	92	8.601	21.089	-8.373	1.00	0.00
ATOM	1372	CZ	ARG	A	92	9.056	22.047	-7.567	1.00	0.00
ATOM	1373	NH1	ARG	A	92	9.718	21.734	-6.460	1.00	0.00
ATOM	1374	NH2	ARG	A	92	8.848	23.320	-7.870	1.00	0.00
ATOM	1375	H	ARG	A	92	8.748	16.495	-3.674	1.00	0.00
ATOM	1376	HA	ARG	A	92	7.490	16.750	-6.256	1.00	0.00
ATOM	1377	1HB	ARG	A	92	8.073	19.110	-4.994	1.00	0.00

ATOM 1378	2HB	ARG	A	92	9.536	18.834	-5.928	1.00	0.00
ATOM 1379	1HG	ARG	A	92	7.216	18.334	-7.546	1.00	0.00
ATOM 1380	2HG	ARG	A	92	7.123	19.935	-6.809	1.00	0.00
ATOM 1381	1HD	ARG	A	92	9.783	19.494	-7.755	1.00	0.00
ATOM 1382	2HD	ARG	A	92	8.644	19.123	-9.047	1.00	0.00
ATOM 1383	HE	ARG	A	92	8.116	21.348	-9.184	1.00	0.00
ATOM 1384	1HH1	ARG	A	92	9.878	20.775	-6.226	1.00	0.00
ATOM 1385	2HH1	ARG	A	92	10.056	22.457	-5.860	1.00	0.00
ATOM 1386	1HH2	ARG	A	92	8.350	23.562	-8.702	1.00	0.00
ATOM 1387	2HH2	ARG	A	92	9.188	24.040	-7.265	1.00	0.00
ATOM 1388	N	ARG	A	93	9.803	15.173	-5.576	1.00	0.00
ATOM 1389	CA	ARG	A	93	10.975	14.379	-5.927	1.00	0.00
ATOM 1390	C	ARG	A	93	10.834	12.948	-5.419	1.00	0.00
ATOM 1391	O	ARG	A	93	11.821	12.312	-5.049	1.00	0.00
ATOM 1392	CB	ARG	A	93	12.240	15.015	-5.350	1.00	0.00
ATOM 1393	CG	ARG	A	93	13.521	14.535	-6.014	1.00	0.00
ATOM 1394	CD	ARG	A	93	14.575	14.153	-4.987	1.00	0.00
ATOM 1395	NE	ARG	A	93	15.841	13.784	-5.615	1.00	0.00
ATOM 1396	CZ	ARG	A	93	16.058	12.617	-6.219	1.00	0.00
ATOM 1397	NH1	ARG	A	93	15.095	11.705	-6.280	1.00	0.00
ATOM 1398	NH2	ARG	A	93	17.238	12.363	-6.765	1.00	0.00
ATOM 1399	H	ARG	A	93	9.161	14.818	-4.927	1.00	0.00
ATOM 1400	HA	ARG	A	93	11.051	14.361	-7.004	1.00	0.00
ATOM 1401	1HB	ARG	A	93	12.177	16.088	-5.471	1.00	0.00
ATOM 1402	2HB	ARG	A	93	12.297	14.783	-4.296	1.00	0.00
ATOM 1403	1HG	ARG	A	93	13.297	13.672	-6.623	1.00	0.00
ATOM 1404	2HG	ARG	A	93	13.909	15.327	-6.639	1.00	0.00

ATOM 1405	1HD	ARG	A	93	14.741	14.994	-4.332	1.00	0.00
ATOM 1406	2HD	ARG	A	93	14.211	13.315	-4.412	1.00	0.00
ATOM 1407	HE	ARG	A	93	16.569	14.439	-5.584	1.00	0.00
ATOM 1408	1HH1	ARG	A	93	14.202	11.891	-5.871	1.00	0.00
ATOM 1409	2HH1	ARG	A	93	15.264	10.831	-6.735	1.00	0.00
ATOM 1410	1HH2	ARG	A	93	17.967	13.047	-6.723	1.00	0.00
ATOM 1411	2HH2	ARG	A	93	17.402	11.486	-7.219	1.00	0.00
ATOM 1412	N	VAL	A	94	9.604	12.448	-5.405	1.00	0.00
ATOM 1413	CA	VAL	A	94	9.335	11.091	-4.942	1.00	0.00
ATOM 1414	C	VAL	A	94	9.239	10.121	-6.114	1.00	0.00
ATOM 1415	O	VAL	A	94	8.152	9.866	-6.633	1.00	0.00
ATOM 1416	CB	VAL	A	94	8.032	11.023	-4.125	1.00	0.00
ATOM 1417	CG1	VAL	A	94	7.877	9.654	-3.480	1.00	0.00
ATOM 1418	CG2	VAL	A	94	8.000	12.122	-3.075	1.00	0.00
ATOM 1419	H	VAL	A	94	8.858	13.004	-5.712	1.00	0.00
ATOM 1420	HA	VAL	A	94	10.152	10.789	-4.303	1.00	0.00
ATOM 1421	HB	VAL	A	94	7.201	11.173	-4.798	1.00	0.00
ATOM 1422	1HG1	VAL	A	94	8.851	9.209	-3.341	1.00	0.00
ATOM 1423	2HG1	VAL	A	94	7.281	9.020	-4.119	1.00	0.00
ATOM 1424	3HG1	VAL	A	94	7.389	9.761	-2.522	1.00	0.00
ATOM 1425	1HG2	VAL	A	94	7.448	11.779	-2.212	1.00	0.00
ATOM 1426	2HG2	VAL	A	94	7.520	12.998	-3.486	1.00	0.00
ATOM 1427	3HG2	VAL	A	94	9.009	12.368	-2.782	1.00	0.00
ATOM 1428	N	ASP	A	95	10.381	9.581	-6.525	1.00	0.00
ATOM 1429	CA	ASP	A	95	10.424	8.638	-7.636	1.00	0.00
ATOM 1430	C	ASP	A	95	9.567	7.412	-7.342	1.00	0.00
ATOM 1431	O	ASP	A	95	9.303	7.089	-6.184	1.00	0.00

ATOM 1432	CB	ASP	A	95	11.866	8.211	-7.915	1.00	0.00
ATOM 1433	CG	ASP	A	95	12.625	9.236	-8.737	1.00	0.00
ATOM 1434	OD1	ASP	A	95	12.366	10.445	-8.562	1.00	0.00
ATOM 1435	OD2	ASP	A	95	13.476	8.829	-9.554	1.00	0.00
ATOM 1436	H	ASP	A	95	11.215	9.823	-6.071	1.00	0.00
ATOM 1437	HA	ASP	A	95	10.031	9.137	-8.509	1.00	0.00
ATOM 1438	1HB	ASP	A	95	12.383	8.077	-6.976	1.00	0.00
ATOM 1439	2HB	ASP	A	95	11.861	7.276	-8.454	1.00	0.00
ATOM 1440	N	ARG	A	96	9.135	6.730	-8.399	1.00	0.00
ATOM 1441	CA	ARG	A	96	8.307	5.539	-8.253	1.00	0.00
ATOM 1442	C	ARG	A	96	9.030	4.469	-7.442	1.00	0.00
ATOM 1443	O	ARG	A	96	8.408	3.720	-6.688	1.00	0.00
ATOM 1444	CB	ARG	A	96	7.929	4.984	-9.628	1.00	0.00
ATOM 1445	CG	ARG	A	96	9.128	4.605	-10.481	1.00	0.00
ATOM 1446	CD	ARG	A	96	8.811	4.709	-11.965	1.00	0.00
ATOM 1447	NE	ARG	A	96	9.882	4.160	-12.793	1.00	0.00
ATOM 1448	CZ	ARG	A	96	9.796	4.009	-14.112	1.00	0.00
ATOM 1449	NH1	ARG	A	96	8.691	4.364	-14.757	1.00	0.00
ATOM 1450	NH2	ARG	A	96	10.816	3.502	-14.790	1.00	0.00
ATOM 1451	H	ARG	A	96	9.378	7.037	-9.297	1.00	0.00
ATOM 1452	HA	ARG	A	96	7.406	5.822	-7.730	1.00	0.00
ATOM 1453	1HB	ARG	A	96	7.318	4.104	-9.493	1.00	0.00
ATOM 1454	2HB	ARG	A	96	7.357	5.731	-10.160	1.00	0.00
ATOM 1455	1HG	ARG	A	96	9.947	5.271	-10.252	1.00	0.00
ATOM 1456	2HG	ARG	A	96	9.414	3.589	-10.253	1.00	0.00
ATOM 1457	1HD	ARG	A	96	7.901	4.164	-12.164	1.00	0.00
ATOM 1458	2HD	ARG	A	96	8.670	5.748	-12.218	1.00	0.00



ATOM	1459	HE	ARG	A	96	10.710	3.889	-12.343	1.00	0.00
ATOM	1460	1HH1	ARG	A	96	7.918	4.746	-14.253	1.00	0.00
ATOM	1461	2HH1	ARG	A	96	8.633	4.249	-15.749	1.00	0.00
ATOM	1462	1HH2	ARG	A	96	11.651	3.232	-14.310	1.00	0.00
ATOM	1463	2HH2	ARG	A	96	10.752	3.388	-15.781	1.00	0.00
ATOM	1464	N	VAL	A	97	10.348	4.403	-7.601	1.00	0.00
ATOM	1465	CA	VAL	A	97	11.156	3.425	-6.883	1.00	0.00
ATOM	1466	C	VAL	A	97	11.097	3.662	-5.378	1.00	0.00
ATOM	1467	O	VAL	A	97	11.218	2.727	-4.588	1.00	0.00
ATOM	1468	CB	VAL	A	97	12.626	3.466	-7.340	1.00	0.00
ATOM	1469	CG1	VAL	A	97	13.409	2.313	-6.733	1.00	0.00
ATOM	1470	CG2	VAL	A	97	12.715	3.440	-8.858	1.00	0.00
ATOM	1471	H	VAL	A	97	10.787	5.026	-8.216	1.00	0.00
ATOM	1472	HA	VAL	A	97	10.762	2.443	-7.099	1.00	0.00
ATOM	1473	HB	VAL	A	97	13.065	4.391	-6.992	1.00	0.00
ATOM	1474	1HG1	VAL	A	97	13.549	2.489	-5.677	1.00	0.00
ATOM	1475	2HG1	VAL	A	97	14.371	2.235	-7.217	1.00	0.00
ATOM	1476	3HG1	VAL	A	97	12.860	1.393	-6.873	1.00	0.00
ATOM	1477	1HG2	VAL	A	97	12.096	2.641	-9.241	1.00	0.00
ATOM	1478	2HG2	VAL	A	97	13.739	3.276	-9.157	1.00	0.00
ATOM	1479	3HG2	VAL	A	97	12.371	4.383	-9.256	1.00	0.00
ATOM	1480	N	ALA	A	98	10.910	4.920	-4.989	1.00	0.00
ATOM	1481	CA	ALA	A	98	10.835	5.279	-3.578	1.00	0.00
ATOM	1482	C	ALA	A	98	9.688	4.551	-2.886	1.00	0.00
ATOM	1483	O	ALA	A	98	9.902	3.794	-1.940	1.00	0.00
ATOM	1484	CB	ALA	A	98	10.675	6.784	-3.425	1.00	0.00
ATOM	1485	H	ALA	A	98	10.821	5.622	-5.666	1.00	0.00

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ATOM 1486	HA	ALA A	98	11.765	4.990	-3.111	1.00	0.00
ATOM 1487	1HB	ALA A	98	11.121	7.101	-2.494	1.00	0.00
ATOM 1488	2HB	ALA A	98	9.625	7.037	-3.426	1.00	0.00
ATOM 1489	3HB	ALA A	98	11.166	7.284	-4.248	1.00	0.00
ATOM 1490	N	ILE A	99	8.471	4.782	-3.368	1.00	0.00
ATOM 1491	CA	ILE A	99	7.292	4.144	-2.795	1.00	0.00
ATOM 1492	C	ILE A	99	7.274	2.649	-3.101	1.00	0.00
ATOM 1493	O	ILE A	99	6.649	1.866	-2.386	1.00	0.00
ATOM 1494	CB	ILE A	99	5.988	4.780	-3.320	1.00	0.00
ATOM 1495	CG1	ILE A	99	6.051	6.304	-3.205	1.00	0.00
ATOM 1496	CG2	ILE A	99	4.791	4.236	-2.555	1.00	0.00
ATOM 1497	CD1	ILE A	99	5.248	7.024	-4.268	1.00	0.00
ATOM 1498	H	ILE A	99	8.364	5.393	-4.126	1.00	0.00
ATOM 1499	HA	ILE A	99	7.327	4.280	-1.724	1.00	0.00
ATOM 1500	HB	ILE A	99	5.872	4.508	-4.358	1.00	0.00
ATOM 1501	1HG1	ILE A	99	5.664	6.601	-2.243	1.00	0.00
ATOM 1502	2HG1	ILE A	99	7.078	6.626	-3.290	1.00	0.00
ATOM 1503	1HG2	ILE A	99	4.303	3.474	-3.145	1.00	0.00
ATOM 1504	2HG2	ILE A	99	4.095	5.038	-2.357	1.00	0.00
ATOM 1505	3HG2	ILE A	99	5.124	3.809	-1.621	1.00	0.00
ATOM 1506	1HD1	ILE A	99	5.340	8.091	-4.128	1.00	0.00
ATOM 1507	2HD1	ILE A	99	4.210	6.738	-4.189	1.00	0.00
ATOM 1508	3HD1	ILE A	99	5.623	6.756	-5.245	1.00	0.00
ATOM 1509	N	TYR A	100	7.966	2.258	-4.168	1.00	0.00
ATOM 1510	CA	TYR A	100	8.031	0.858	-4.569	1.00	0.00
ATOM 1511	C	TYR A	100	8.972	0.075	-3.658	1.00	0.00
ATOM 1512	O	TYR A	100	8.678	-1.055	-3.269	1.00	0.00

ATOM	1513	CB	TYR A 100	8.499	0.743	-6.021	1.00	0.00
ATOM	1514	CG	TYR A 100	8.373	-0.652	-6.590	1.00	0.00
ATOM	1515	CD1	TYR A 100	9.491	-1.458	-6.756	1.00	0.00
ATOM	1516	CD2	TYR A 100	7.135	-1.162	-6.962	1.00	0.00
ATOM	1517	CE1	TYR A 100	9.381	-2.734	-7.278	1.00	0.00
ATOM	1518	CE2	TYR A 100	7.016	-2.436	-7.484	1.00	0.00
ATOM	1519	CZ	TYR A 100	8.141	-3.218	-7.639	1.00	0.00
ATOM	1520	OH	TYR A 100	8.027	-4.487	-8.157	1.00	0.00
ATOM	1521	H	TYR A 100	8.444	2.928	-4.700	1.00	0.00
ATOM	1522	HA	TYR A 100	7.038	0.442	-4.485	1.00	0.00
ATOM	1523	1HB	TYR A 100	7.909	1.406	-6.635	1.00	0.00
ATOM	1524	2HB	TYR A 100	9.538	1.033	-6.080	1.00	0.00
ATOM	1525	HD1	TYR A 100	10.461	-1.077	-6.472	1.00	0.00
ATOM	1526	HD2	TYR A 100	6.256	-0.547	-6.840	1.00	0.00
ATOM	1527	HE1	TYR A 100	10.263	-3.345	-7.399	1.00	0.00
ATOM	1528	HE2	TYR A 100	6.045	-2.815	-7.766	1.00	0.00
ATOM	1529	HH	TYR A 100	8.761	-4.658	-8.751	1.00	0.00
ATOM	1530	N	GLU A 101	10.106	0.684	-3.325	1.00	0.00
ATOM	1531	CA	GLU A 101	11.093	0.042	-2.463	1.00	0.00
ATOM	1532	C	GLU A 101	10.631	0.043	-1.009	1.00	0.00
ATOM	1533	O	GLU A 101	10.799	-0.945	-0.295	1.00	0.00
ATOM	1534	CB	GLU A 101	12.441	0.754	-2.582	1.00	0.00
ATOM	1535	CG	GLU A 101	13.303	0.235	-3.723	1.00	0.00
ATOM	1536	CD	GLU A 101	14.782	0.251	-3.390	1.00	0.00
ATOM	1537	OE1	GLU A 101	15.371	-0.841	-3.250	1.00	0.00
ATOM	1538	OE2	GLU A 101	15.352	1.356	-3.270	1.00	0.00
ATOM	1539	H	GLU A 101	10.284	1.584	-3.668	1.00	0.00

ATOM 1540	HA	GLU A 101	11.204	-0.980	-2.792	1.00	0.00
ATOM 1541	1HB	GLU A 101	12.267	1.808	-2.742	1.00	0.00
ATOM 1542	2HB	GLU A 101	12.987	0.623	-1.660	1.00	0.00
ATOM 1543	1HG	GLU A 101	13.012	-0.780	-3.945	1.00	0.00
ATOM 1544	2HG	GLU A 101	13.137	0.855	-4.592	1.00	0.00
ATOM 1545	N	GLU A 102	10.054	1.158	-0.575	1.00	0.00
ATOM 1546	CA	GLU A 102	9.572	1.287	0.795	1.00	0.00
ATOM 1547	C	GLU A 102	8.522	0.226	1.107	1.00	0.00
ATOM 1548	O	GLU A 102	8.479	-0.313	2.213	1.00	0.00
ATOM 1549	CB	GLU A 102	8.986	2.682	1.024	1.00	0.00
ATOM 1550	CG	GLU A 102	10.039	3.764	1.187	1.00	0.00
ATOM 1551	CD	GLU A 102	10.491	3.924	2.626	1.00	0.00
ATOM 1552	OE1	GLU A 102	11.021	2.945	3.193	1.00	0.00
ATOM 1553	OE2	GLU A 102	10.317	5.028	3.184	1.00	0.00
ATOM 1554	H	GLU A 102	9.951	1.914	-1.191	1.00	0.00
ATOM 1555	HA	GLU A 102	10.413	1.148	1.456	1.00	0.00
ATOM 1556	1HB	GLU A 102	8.363	2.940	0.180	1.00	0.00
ATOM 1557	2HB	GLU A 102	8.378	2.662	1.916	1.00	0.00
ATOM 1558	1HG	GLU A 102	10.897	3.509	0.583	1.00	0.00
ATOM 1559	2HG	GLU A 102	9.628	4.704	0.848	1.00	0.00
ATOM 1560	N	PHE A 103	7.677	-0.072	0.125	1.00	0.00
ATOM 1561	CA	PHE A 103	6.628	-1.069	0.296	1.00	0.00
ATOM 1562	C	PHE A 103	7.216	-2.476	0.349	1.00	0.00
ATOM 1563	O	PHE A 103	6.874	-3.270	1.225	1.00	0.00
ATOM 1564	CB	PHE A 103	5.613	-0.972	-0.844	1.00	0.00
ATOM 1565	CG	PHE A 103	4.455	-1.919	-0.700	1.00	0.00
ATOM 1566	CD1	PHE A 103	4.141	-2.808	-1.715	1.00	0.00

ATOM	1567	CD2	PHE	A	103	3.681	-1.920	0.449	1.00	0.00
ATOM	1568	CE1	PHE	A	103	3.077	-3.681	-1.586	1.00	0.00
ATOM	1569	CE2	PHE	A	103	2.615	-2.790	0.584	1.00	0.00
ATOM	1570	CZ	PHE	A	103	2.313	-3.672	-0.435	1.00	0.00
ATOM	1571	H	PHE	A	103	7.762	0.391	-0.735	1.00	0.00
ATOM	1572	HA	PHE	A	103	6.126	-0.866	1.231	1.00	0.00
ATOM	1573	1HB	PHE	A	103	5.216	0.032	-0.879	1.00	0.00
ATOM	1574	2HB	PHE	A	103	6.109	-1.191	-1.778	1.00	0.00
ATOM	1575	HD1	PHE	A	103	4.738	-2.818	-2.615	1.00	0.00
ATOM	1576	HD2	PHE	A	103	3.916	-1.229	1.246	1.00	0.00
ATOM	1577	HE1	PHE	A	103	2.843	-4.370	-2.384	1.00	0.00
ATOM	1578	HE2	PHE	A	103	2.021	-2.779	1.485	1.00	0.00
ATOM	1579	HZ	PHE	A	103	1.482	-4.352	-0.332	1.00	0.00
ATOM	1580	N	LEU	A	104	8.100	-2.777	-0.596	1.00	0.00
ATOM	1581	CA	LEU	A	104	8.736	-4.089	-0.659	1.00	0.00
ATOM	1582	C	LEU	A	104	9.523	-4.381	0.614	1.00	0.00
ATOM	1583	O	LEU	A	104	9.483	-5.494	1.138	1.00	0.00
ATOM	1584	CB	LEU	A	104	9.665	-4.169	-1.873	1.00	0.00
ATOM	1585	CG	LEU	A	104	8.974	-4.014	-3.229	1.00	0.00
ATOM	1586	CD1	LEU	A	104	9.975	-3.586	-4.292	1.00	0.00
ATOM	1587	CD2	LEU	A	104	8.290	-5.313	-3.628	1.00	0.00
ATOM	1588	H	LEU	A	104	8.331	-2.102	-1.268	1.00	0.00
ATOM	1589	HA	LEU	A	104	7.958	-4.828	-0.765	1.00	0.00
ATOM	1590	1HB	LEU	A	104	10.410	-3.392	-1.780	1.00	0.00
ATOM	1591	2HB	LEU	A	104	10.163	-5.126	-1.856	1.00	0.00
ATOM	1592	HG	LEU	A	104	8.218	-3.246	-3.155	1.00	0.00
ATOM	1593	1HD1	LEU	A	104	9.909	-2.519	-4.439	1.00	0.00

ATOM 1594	2HD1	LEU	A	104	9.753	-4.092	-5.220	1.00	0.00
ATOM 1595	3HD1	LEU	A	104	10.973	-3.845	-3.972	1.00	0.00
ATOM 1596	1HD2	LEU	A	104	8.339	-5.431	-4.701	1.00	0.00
ATOM 1597	2HD2	LEU	A	104	7.256	-5.286	-3.316	1.00	0.00
ATOM 1598	3HD2	LEU	A	104	8.789	-6.144	-3.152	1.00	0.00
ATOM 1599	N	ARG	A	105	10.241	-3.376	1.104	1.00	0.00
ATOM 1600	CA	ARG	A	105	11.043	-3.528	2.315	1.00	0.00
ATOM 1601	C	ARG	A	105	10.173	-3.918	3.506	1.00	0.00
ATOM 1602	O	ARG	A	105	10.545	-4.782	4.300	1.00	0.00
ATOM 1603	CB	ARG	A	105	11.791	-2.228	2.622	1.00	0.00
ATOM 1604	CG	ARG	A	105	13.166	-2.449	3.230	1.00	0.00
ATOM 1605	CD	ARG	A	105	13.069	-3.009	4.640	1.00	0.00
ATOM 1606	NE	ARG	A	105	14.098	-2.461	5.520	1.00	0.00
ATOM 1607	CZ	ARG	A	105	14.307	-2.878	6.766	1.00	0.00
ATOM 1608	NH1	ARG	A	105	13.563	-3.848	7.282	1.00	0.00
ATOM 1609	NH2	ARG	A	105	15.265	-2.326	7.498	1.00	0.00
ATOM 1610	H	ARG	A	105	10.235	-2.513	0.640	1.00	0.00
ATOM 1611	HA	ARG	A	105	11.762	-4.312	2.137	1.00	0.00
ATOM 1612	1HB	ARG	A	105	11.911	-1.670	1.705	1.00	0.00
ATOM 1613	2HB	ARG	A	105	11.204	-1.644	3.314	1.00	0.00
ATOM 1614	1HG	ARG	A	105	13.715	-3.146	2.615	1.00	0.00
ATOM 1615	2HG	ARG	A	105	13.690	-1.504	3.262	1.00	0.00
ATOM 1616	1HD	ARG	A	105	12.098	-2.766	5.044	1.00	0.00
ATOM 1617	2HD	ARG	A	105	13.181	-4.082	4.595	1.00	0.00
ATOM 1618	HE	ARG	A	105	14.664	-1.743	5.164	1.00	0.00
ATOM 1619	1HH1	ARG	A	105	12.839	-4.269	6.735	1.00	0.00
ATOM 1620	2HH1	ARG	A	105	13.725	-4.157	8.219	1.00	0.00

ATOM 1621	1HH2	ARG	A	105	15.830	-1.596	7.114	1.00	0.00
ATOM 1622	2HH2	ARG	A	105	15.423	-2.640	8.434	1.00	0.00
ATOM 1623	N	MET	A	106	9.017	-3.276	3.627	1.00	0.00
ATOM 1624	CA	MET	A	106	8.100	-3.555	4.727	1.00	0.00
ATOM 1625	C	MET	A	106	7.315	-4.840	4.479	1.00	0.00
ATOM 1626	O	MET	A	106	6.910	-5.521	5.420	1.00	0.00
ATOM 1627	CB	MET	A	106	7.135	-2.385	4.924	1.00	0.00
ATOM 1628	CG	MET	A	106	6.596	-2.275	6.342	1.00	0.00
ATOM 1629	SD	MET	A	106	7.385	-0.957	7.286	1.00	0.00
ATOM 1630	CE	MET	A	106	6.683	0.490	6.499	1.00	0.00
ATOM 1631	H	MET	A	106	8.776	-2.594	2.965	1.00	0.00
ATOM 1632	HA	MET	A	106	8.688	-3.678	5.624	1.00	0.00
ATOM 1633	1HB	MET	A	106	7.648	-1.465	4.683	1.00	0.00
ATOM 1634	2HB	MET	A	106	6.298	-2.507	4.253	1.00	0.00
ATOM 1635	1HG	MET	A	106	5.536	-2.078	6.294	1.00	0.00
ATOM 1636	2HG	MET	A	106	6.764	-3.213	6.850	1.00	0.00
ATOM 1637	1HE	MET	A	106	5.624	0.341	6.349	1.00	0.00
ATOM 1638	2HE	MET	A	106	7.163	0.651	5.545	1.00	0.00
ATOM 1639	3HE	MET	A	106	6.838	1.355	7.130	1.00	0.00
ATOM 1640	N	THR	A	107	7.098	-5.164	3.208	1.00	0.00
ATOM 1641	CA	THR	A	107	6.357	-6.368	2.846	1.00	0.00
ATOM 1642	C	THR	A	107	7.302	-7.522	2.521	1.00	0.00
ATOM 1643	O	THR	A	107	6.951	-8.429	1.766	1.00	0.00
ATOM 1644	CB	THR	A	107	5.443	-6.088	1.651	1.00	0.00
ATOM 1645	OG1	THR	A	107	6.182	-5.557	0.565	1.00	0.00
ATOM 1646	CG2	THR	A	107	4.329	-5.114	1.966	1.00	0.00
ATOM 1647	H	THR	A	107	7.442	-4.582	2.498	1.00	0.00

ATOM 1648	HA	THR A 107	5.748	-6.647	3.693	1.00	0.00
ATOM 1649	HB	THR A 107	4.990	-7.016	1.332	1.00	0.00
ATOM 1650	HG1	THR A 107	7.015	-6.027	0.485	1.00	0.00
ATOM 1651	1HG2	THR A 107	4.513	-4.180	1.456	1.00	0.00
ATOM 1652	2HG2	THR A 107	4.292	-4.942	3.030	1.00	0.00
ATOM 1653	3HG2	THR A 107	3.387	-5.525	1.634	1.00	0.00
ATOM 1654	N	HIS A 108	8.499	-7.486	3.100	1.00	0.00
ATOM 1655	CA	HIS A 108	9.494	-8.533	2.876	1.00	0.00
ATOM 1656	C	HIS A 108	9.710	-8.779	1.385	1.00	0.00
ATOM 1657	O	HIS A 108	9.193	-9.745	0.824	1.00	0.00
ATOM 1658	CB	HIS A 108	9.059	-9.831	3.560	1.00	0.00
ATOM 1659	CG	HIS A 108	9.216	-9.803	5.049	1.00	0.00
ATOM 1660	ND1	HIS A 108	8.221	-10.198	5.918	1.00	0.00
ATOM 1661	CD2	HIS A 108	10.262	-9.427	5.823	1.00	0.00
ATOM 1662	CE1	HIS A 108	8.648	-10.064	7.162	1.00	0.00
ATOM 1663	NE2	HIS A 108	9.883	-9.598	7.130	1.00	0.00
ATOM 1664	H	HIS A 108	8.719	-6.740	3.696	1.00	0.00
ATOM 1665	HA	HIS A 108	10.424	-8.203	3.312	1.00	0.00
ATOM 1666	1HB	HIS A 108	8.018	-10.013	3.340	1.00	0.00
ATOM 1667	2HB	HIS A 108	9.653	-10.647	3.177	1.00	0.00
ATOM 1668	HD1	HIS A 108	7.335	-10.526	5.663	1.00	0.00
ATOM 1669	HD2	HIS A 108	11.217	-9.059	5.474	1.00	0.00
ATOM 1670	HE1	HIS A 108	8.082	-10.296	8.052	1.00	0.00
ATOM 1671	HE2	HIS A 108	10.467	-9.497	7.911	1.00	0.00
ATOM 1672	N	ASN A 109	10.480	-7.900	0.750	1.00	0.00
ATOM 1673	CA	ASN A 109	10.767	-8.022	-0.677	1.00	0.00
ATOM 1674	C	ASN A 109	9.482	-8.171	-1.487	1.00	0.00



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ATOM 1675	O	ASN A 109	9.485	-8.748	-2.573	1.00	0.00
ATOM 1676	CB	ASN A 109	11.684	-9.220	-0.932	1.00	0.00
ATOM 1677	CG	ASN A 109	12.996	-9.113	-0.180	1.00	0.00
ATOM 1678	OD1	ASN A 109	13.394	-8.030	0.248	1.00	0.00
ATOM 1679	ND2	ASN A 109	13.677	-10.242	-0.016	1.00	0.00
ATOM 1680	H	ASN A 109	10.865	-7.152	1.252	1.00	0.00
ATOM 1681	HA	ASN A 109	11.273	-7.121	-0.990	1.00	0.00
ATOM 1682	1HB	ASN A 109	11.183	-10.123	-0.616	1.00	0.00
ATOM 1683	2HB	ASN A 109	11.900	-9.282	-1.988	1.00	0.00
ATOM 1684	1HD2	ASN A 109	13.300	-11.068	-0.384	1.00	0.00
ATOM 1685	2HD2	ASN A 109	14.530	-10.201	0.466	1.00	0.00
ATOM 1686	N	GLY A 110	8.386	-7.647	-0.948	1.00	0.00
ATOM 1687	CA	GLY A 110	7.109	-7.732	-1.633	1.00	0.00
ATOM 1688	C	GLY A 110	6.601	-9.156	-1.734	1.00	0.00
ATOM 1689	O	GLY A 110	6.577	-9.739	-2.817	1.00	0.00
ATOM 1690	H	GLY A 110	8.444	-7.200	-0.079	1.00	0.00
ATOM 1691	1HA	GLY A 110	6.384	-7.140	-1.095	1.00	0.00
ATOM 1692	2HA	GLY A 110	7.219	-7.330	-2.629	1.00	0.00
ATOM 1693	N	THR A 111	6.194	-9.719	-0.601	1.00	0.00
ATOM 1694	CA	THR A 111	5.685	-11.086	-0.567	1.00	0.00
ATOM 1695	C	THR A 111	4.483	-11.197	0.365	1.00	0.00
ATOM 1696	O	THR A 111	3.466	-11.793	0.013	1.00	0.00
ATOM 1697	CB	THR A 111	6.784	-12.050	-0.120	1.00	0.00
ATOM 1698	OG1	THR A 111	7.436	-11.565	1.042	1.00	0.00
ATOM 1699	CG2	THR A 111	7.842	-12.283	-1.175	1.00	0.00
ATOM 1700	H	THR A 111	6.239	-9.204	0.232	1.00	0.00
ATOM 1701	HA	THR A 111	5.375	-11.347	-1.567	1.00	0.00

ATOM 1702	HB	THR A 111	6.336	-13.005	0.117	1.00	0.00
ATOM 1703	HG1	THR A 111	7.746	-10.670	0.884	1.00	0.00
ATOM 1704	1HG2	THR A 111	7.711	-11.574	-1.979	1.00	0.00
ATOM 1705	2HG2	THR A 111	7.749	-13.287	-1.563	1.00	0.00
ATOM 1706	3HG2	THR A 111	8.821	-12.155	-0.739	1.00	0.00
ATOM 1707	N	GLN A 112	4.609	-10.624	1.559	1.00	0.00
ATOM 1708	CA	GLN A 112	3.532	-10.663	2.540	1.00	0.00
ATOM 1709	C	GLN A 112	3.303	-9.287	3.157	1.00	0.00
ATOM 1710	O	GLN A 112	4.200	-8.715	3.776	1.00	0.00
ATOM 1711	CB	GLN A 112	3.851	-11.680	3.638	1.00	0.00
ATOM 1712	CG	GLN A 112	2.742	-11.834	4.666	1.00	0.00
ATOM 1713	CD	GLN A 112	3.215	-11.567	6.082	1.00	0.00
ATOM 1714	OE1	GLN A 112	4.094	-10.735	6.308	1.00	0.00
ATOM 1715	NE2	GLN A 112	2.632	-12.273	7.044	1.00	0.00
ATOM 1716	H	GLN A 112	5.445	-10.166	1.784	1.00	0.00
ATOM 1717	HA	GLN A 112	2.631	-10.969	2.030	1.00	0.00
ATOM 1718	1HB	GLN A 112	4.025	-12.643	3.180	1.00	0.00
ATOM 1719	2HB	GLN A 112	4.749	-11.369	4.151	1.00	0.00
ATOM 1720	1HG	GLN A 112	1.951	-11.138	4.431	1.00	0.00
ATOM 1721	2HG	GLN A 112	2.358	-12.843	4.614	1.00	0.00
ATOM 1722	1HE2	GLN A 112	1.940	-12.918	6.789	1.00	0.00
ATOM 1723	2HE2	GLN A 112	2.918	-12.121	7.969	1.00	0.00
ATOM 1724	N	LEU A 113	2.094	-8.762	2.986	1.00	0.00
ATOM 1725	CA	LEU A 113	1.743	-7.455	3.527	1.00	0.00
ATOM 1726	C	LEU A 113	1.060	-7.598	4.884	1.00	0.00
ATOM 1727	O	LEU A 113	-0.157	-7.756	4.964	1.00	0.00
ATOM 1728	CB	LEU A 113	0.829	-6.703	2.551	1.00	0.00

ATOM 1729	CG	LEU A 113	0.358	-5.316	3.008	1.00	0.00
ATOM 1730	CD1	LEU A 113	-0.913	-5.425	3.835	1.00	0.00
ATOM 1731	CD2	LEU A 113	1.447	-4.598	3.796	1.00	0.00
ATOM 1732	H	LEU A 113	1.421	-9.269	2.484	1.00	0.00
ATOM 1733	HA	LEU A 113	2.657	-6.894	3.655	1.00	0.00
ATOM 1734	1HB	LEU A 113	1.360	-6.587	1.617	1.00	0.00
ATOM 1735	2HB	LEU A 113	-0.045	-7.312	2.371	1.00	0.00
ATOM 1736	HG	LEU A 113	0.133	-4.719	2.135	1.00	0.00
ATOM 1737	1HD1	LEU A 113	-1.584	-4.620	3.573	1.00	0.00
ATOM 1738	2HD1	LEU A 113	-0.667	-5.362	4.884	1.00	0.00
ATOM 1739	3HD1	LEU A 113	-1.392	-6.372	3.634	1.00	0.00
ATOM 1740	1HD2	LEU A 113	1.781	-5.229	4.608	1.00	0.00
ATOM 1741	2HD2	LEU A 113	1.053	-3.676	4.196	1.00	0.00
ATOM 1742	3HD2	LEU A 113	2.280	-4.381	3.144	1.00	0.00
ATOM 1743	N	LEU A 114	1.857	-7.545	5.948	1.00	0.00
ATOM 1744	CA	LEU A 114	1.337	-7.671	7.306	1.00	0.00
ATOM 1745	C	LEU A 114	0.658	-9.022	7.512	1.00	0.00
ATOM 1746	O	LEU A 114	1.252	-9.947	8.065	1.00	0.00
ATOM 1747	CB	LEU A 114	0.355	-6.535	7.606	1.00	0.00
ATOM 1748	CG	LEU A 114	0.998	-5.163	7.813	1.00	0.00
ATOM 1749	CD1	LEU A 114	-0.053	-4.134	8.201	1.00	0.00
ATOM 1750	CD2	LEU A 114	2.088	-5.240	8.872	1.00	0.00
ATOM 1751	H	LEU A 114	2.820	-7.420	5.817	1.00	0.00
ATOM 1752	HA	LEU A 114	2.173	-7.597	7.986	1.00	0.00
ATOM 1753	1HB	LEU A 114	-0.342	-6.464	6.784	1.00	0.00
ATOM 1754	2HB	LEU A 114	-0.194	-6.789	8.501	1.00	0.00
ATOM 1755	HG	LEU A 114	1.452	-4.842	6.886	1.00	0.00

ATOM	1756	1HD1	LEU	A	114	-0.481	-3.703	7.308	1.00	0.00
ATOM	1757	2HD1	LEU	A	114	0.406	-3.356	8.792	1.00	0.00
ATOM	1758	3HD1	LEU	A	114	-0.831	-4.613	8.777	1.00	0.00
ATOM	1759	1HD2	LEU	A	114	2.919	-5.815	8.491	1.00	0.00
ATOM	1760	2HD2	LEU	A	114	1.697	-5.716	9.758	1.00	0.00
ATOM	1761	3HD2	LEU	A	114	2.423	-4.243	9.117	1.00	0.00
ATOM	1762	N	ASN	A	115	-0.589	-9.131	7.063	1.00	0.00
ATOM	1763	CA	ASN	A	115	-1.345	-10.371	7.197	1.00	0.00
ATOM	1764	C	ASN	A	115	-2.000	-10.751	5.873	1.00	0.00
ATOM	1765	O	ASN	A	115	-3.055	-11.385	5.851	1.00	0.00
ATOM	1766	CB	ASN	A	115	-2.411	-10.228	8.285	1.00	0.00
ATOM	1767	CG	ASN	A	115	-1.816	-10.241	9.680	1.00	0.00
ATOM	1768	OD1	ASN	A	115	-0.960	-11.066	9.996	1.00	0.00
ATOM	1769	ND2	ASN	A	115	-2.272	-9.322	10.526	1.00	0.00
ATOM	1770	H	ASN	A	115	-1.010	-8.360	6.629	1.00	0.00
ATOM	1771	HA	ASN	A	115	-0.654	-11.150	7.481	1.00	0.00
ATOM	1772	1HB	ASN	A	115	-2.935	-9.294	8.147	1.00	0.00
ATOM	1773	2HB	ASN	A	115	-3.111	-11.046	8.204	1.00	0.00
ATOM	1774	1HD2	ASN	A	115	-2.955	-8.698	10.205	1.00	0.00
ATOM	1775	2HD2	ASN	A	115	-1.906	-9.308	11.435	1.00	0.00
ATOM	1776	N	PHE	A	116	-1.367	-10.359	4.772	1.00	0.00
ATOM	1777	CA	PHE	A	116	-1.886	-10.656	3.443	1.00	0.00
ATOM	1778	C	PHE	A	116	-0.754	-11.012	2.484	1.00	0.00
ATOM	1779	O	PHE	A	116	0.038	-10.153	2.097	1.00	0.00
ATOM	1780	CB	PHE	A	116	-2.672	-9.461	2.900	1.00	0.00
ATOM	1781	CG	PHE	A	116	-4.074	-9.374	3.431	1.00	0.00
ATOM	1782	CD1	PHE	A	116	-5.078	-10.172	2.907	1.00	0.00

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ATOM 1783	CD2	PHE A 116	-4.387	-8.494	4.454	1.00	0.00
ATOM 1784	CE1	PHE A 116	-6.369	-10.094	3.394	1.00	0.00
ATOM 1785	CE2	PHE A 116	-5.676	-8.411	4.945	1.00	0.00
ATOM 1786	CZ	PHE A 116	-6.668	-9.212	4.414	1.00	0.00
ATOM 1787	H	PHE A 116	-0.529	-9.856	4.855	1.00	0.00
ATOM 1788	HA	PHE A 116	-2.550	-11.504	3.528	1.00	0.00
ATOM 1789	1HB	PHE A 116	-2.158	-8.551	3.167	1.00	0.00
ATOM 1790	2HB	PHE A 116	-2.727	-9.535	1.823	1.00	0.00
ATOM 1791	HD1	PHE A 116	-4.845	-10.862	2.109	1.00	0.00
ATOM 1792	HD2	PHE A 116	-3.611	-7.867	4.870	1.00	0.00
ATOM 1793	HE1	PHE A 116	-7.143	-10.721	2.976	1.00	0.00
ATOM 1794	HE2	PHE A 116	-5.907	-7.721	5.743	1.00	0.00
ATOM 1795	HZ	PHE A 116	-7.677	-9.149	4.796	1.00	0.00
ATOM 1796	N	THR A 117	-0.683	-12.284	2.107	1.00	0.00
ATOM 1797	CA	THR A 117	0.354	-12.753	1.195	1.00	0.00
ATOM 1798	C	THR A 117	0.051	-12.333	-0.240	1.00	0.00
ATOM 1799	O	THR A 117	-0.946	-12.759	-0.824	1.00	0.00
ATOM 1800	CB	THR A 117	0.481	-14.276	1.275	1.00	0.00
ATOM 1801	OG1	THR A 117	-0.608	-14.905	0.623	1.00	0.00
ATOM 1802	CG2	THR A 117	0.530	-14.797	2.696	1.00	0.00
ATOM 1803	H	THR A 117	-1.342	-12.922	2.451	1.00	0.00
ATOM 1804	HA	THR A 117	1.288	-12.306	1.498	1.00	0.00
ATOM 1805	HB	THR A 117	1.393	-14.577	0.781	1.00	0.00
ATOM 1806	HG1	THR A 117	-0.471	-14.878	-0.326	1.00	0.00
ATOM 1807	1HG2	THR A 117	-0.474	-14.862	3.089	1.00	0.00
ATOM 1808	2HG2	THR A 117	1.114	-14.124	3.306	1.00	0.00
ATOM 1809	3HG2	THR A 117	0.983	-15.777	2.703	1.00	0.00

ATOM 1810	N	LEU A 118	0.917	-11.496	-0.802	1.00	0.00
ATOM 1811	CA	LEU A 118	0.741	-11.021	-2.170	1.00	0.00
ATOM 1812	C	LEU A 118	2.016	-11.223	-2.984	1.00	0.00
ATOM 1813	O	LEU A 118	3.101	-11.389	-2.427	1.00	0.00
ATOM 1814	CB	LEU A 118	0.340	-9.544	-2.176	1.00	0.00
ATOM 1815	CG	LEU A 118	1.285	-8.609	-1.421	1.00	0.00
ATOM 1816	CD1	LEU A 118	2.365	-8.081	-2.350	1.00	0.00
ATOM 1817	CD2	LEU A 118	0.508	-7.460	-0.796	1.00	0.00
ATOM 1818	H	LEU A 118	1.693	-11.193	-0.287	1.00	0.00
ATOM 1819	HA	LEU A 118	-0.052	-11.600	-2.620	1.00	0.00
ATOM 1820	1HB	LEU A 118	0.284	-9.212	-3.202	1.00	0.00
ATOM 1821	2HB	LEU A 118	-0.641	-9.458	-1.736	1.00	0.00
ATOM 1822	HG	LEU A 118	1.767	-9.159	-0.627	1.00	0.00
ATOM 1823	1HD1	LEU A 118	3.290	-7.973	-1.803	1.00	0.00
ATOM 1824	2HD1	LEU A 118	2.063	-7.121	-2.742	1.00	0.00
ATOM 1825	3HD1	LEU A 118	2.507	-8.774	-3.165	1.00	0.00
ATOM 1826	1HD2	LEU A 118	0.326	-7.674	0.248	1.00	0.00
ATOM 1827	2HD2	LEU A 118	-0.436	-7.343	-1.308	1.00	0.00
ATOM 1828	3HD2	LEU A 118	1.080	-6.548	-0.881	1.00	0.00
ATOM 1829	N	ASP A 119	1.874	-11.215	-4.307	1.00	0.00
ATOM 1830	CA	ASP A 119	3.014	-11.405	-5.199	1.00	0.00
ATOM 1831	C	ASP A 119	3.730	-10.086	-5.467	1.00	0.00
ATOM 1832	O	ASP A 119	3.162	-9.010	-5.284	1.00	0.00
ATOM 1833	CB	ASP A 119	2.552	-12.024	-6.520	1.00	0.00
ATOM 1834	CG	ASP A 119	3.592	-12.952	-7.117	1.00	0.00
ATOM 1835	OD1	ASP A 119	4.294	-12.529	-8.059	1.00	0.00
ATOM 1836	OD2	ASP A 119	3.703	-14.103	-6.643	1.00	0.00

ATOM 1837	H	ASP A 119	0.983	-11.083	-4.690	1.00	0.00
ATOM 1838	HA	ASP A 119	3.702	-12.083	-4.717	1.00	0.00
ATOM 1839	1HB	ASP A 119	1.649	-12.589	-6.350	1.00	0.00
ATOM 1840	2HB	ASP A 119	2.351	-11.234	-7.229	1.00	0.00
ATOM 1841	N	ARG A 120	4.983	-10.180	-5.905	1.00	0.00
ATOM 1842	CA	ARG A 120	5.781	-8.995	-6.202	1.00	0.00
ATOM 1843	C	ARG A 120	5.616	-8.581	-7.660	1.00	0.00
ATOM 1844	O	ARG A 120	5.480	-7.396	-7.967	1.00	0.00
ATOM 1845	CB	ARG A 120	7.258	-9.261	-5.903	1.00	0.00
ATOM 1846	CG	ARG A 120	8.127	-8.017	-5.980	1.00	0.00
ATOM 1847	CD	ARG A 120	9.607	-8.366	-5.972	1.00	0.00
ATOM 1848	NE	ARG A 120	9.998	-9.131	-7.155	1.00	0.00
ATOM 1849	CZ	ARG A 120	9.983	-10.462	-7.221	1.00	0.00
ATOM 1850	NH1	ARG A 120	9.582	-11.183	-6.181	1.00	0.00
ATOM 1851	NH2	ARG A 120	10.365	-11.073	-8.335	1.00	0.00
ATOM 1852	H	ARG A 120	5.379	-11.067	-6.032	1.00	0.00
ATOM 1853	HA	ARG A 120	5.434	-8.193	-5.569	1.00	0.00
ATOM 1854	1HB	ARG A 120	7.344	-9.675	-4.908	1.00	0.00
ATOM 1855	2HB	ARG A 120	7.632	-9.980	-6.615	1.00	0.00
ATOM 1856	1HG	ARG A 120	7.897	-7.485	-6.891	1.00	0.00
ATOM 1857	2HG	ARG A 120	7.911	-7.387	-5.129	1.00	0.00
ATOM 1858	1HD	ARG A 120	10.178	-7.448	-5.947	1.00	0.00
ATOM 1859	2HD	ARG A 120	9.824	-8.945	-5.089	1.00	0.00
ATOM 1860	HE	ARG A 120	10.292	-8.627	-7.943	1.00	0.00
ATOM 1861	1HH1	ARG A 120	9.287	-10.732	-5.340	1.00	0.00
ATOM 1862	2HH1	ARG A 120	9.575	-12.182	-6.240	1.00	0.00
ATOM 1863	1HH2	ARG A 120	10.663	-10.535	-9.123	1.00	0.00

ATOM 1864	2HH2	ARG A 120	10.354	-12.072	-8.385	1.00	0.00
ATOM 1865	N	LYS A 121	5.629	-9.563	-8.555	1.00	0.00
ATOM 1866	CA	LYS A 121	5.482	-9.302	-9.983	1.00	0.00
ATOM 1867	C	LYS A 121	4.192	-8.537	-10.266	1.00	0.00
ATOM 1868	O	LYS A 121	4.138	-7.704	-11.171	1.00	0.00
ATOM 1869	CB	LYS A 121	5.493	-10.616	-10.767	1.00	0.00
ATOM 1870	CG	LYS A 121	6.865	-10.991	-11.307	1.00	0.00
ATOM 1871	CD	LYS A 121	6.882	-11.023	-12.828	1.00	0.00
ATOM 1872	CE	LYS A 121	7.587	-12.263	-13.353	1.00	0.00
ATOM 1873	NZ	LYS A 121	6.625	-13.354	-13.674	1.00	0.00
ATOM 1874	H	LYS A 121	5.742	-10.487	-8.249	1.00	0.00
ATOM 1875	HA	LYS A 121	6.320	-8.699	-10.298	1.00	0.00
ATOM 1876	1HB	LYS A 121	5.156	-11.410	-10.118	1.00	0.00
ATOM 1877	2HB	LYS A 121	4.811	-10.531	-11.601	1.00	0.00
ATOM 1878	1HG	LYS A 121	7.586	-10.264	-10.965	1.00	0.00
ATOM 1879	2HG	LYS A 121	7.132	-11.969	-10.932	1.00	0.00
ATOM 1880	1HD	LYS A 121	5.865	-11.019	-13.192	1.00	0.00
ATOM 1881	2HD	LYS A 121	7.398	-10.146	-13.191	1.00	0.00
ATOM 1882	1HE	LYS A 121	8.132	-12.001	-14.248	1.00	0.00
ATOM 1883	2HE	LYS A 121	8.279	-12.614	-12.601	1.00	0.00
ATOM 1884	1HZ	LYS A 121	5.686	-12.955	-13.873	1.00	0.00
ATOM 1885	2HZ	LYS A 121	6.548	-14.010	-12.872	1.00	0.00
ATOM 1886	3HZ	LYS A 121	6.951	-13.882	-14.510	1.00	0.00
ATOM 1887	N	SER A 122	3.157	-8.826	-9.485	1.00	0.00
ATOM 1888	CA	SER A 122	1.867	-8.165	-9.649	1.00	0.00
ATOM 1889	C	SER A 122	1.939	-6.712	-9.191	1.00	0.00
ATOM 1890	O	SER A 122	1.221	-5.853	-9.705	1.00	0.00



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ATOM	1891	CB	SER A 122	0.787	-8.909	-8.862	1.00	0.00
ATOM	1892	OG	SER A 122	1.038	-8.849	-7.469	1.00	0.00
ATOM	1893	H	SER A 122	3.262	-9.498	-8.780	1.00	0.00
ATOM	1894	HA	SER A 122	1.615	-8.187	-10.699	1.00	0.00
ATOM	1895	1HB	SER A 122	-0.174	-8.458	-9.061	1.00	0.00
ATOM	1896	2HB	SER A 122	0.769	-9.944	-9.169	1.00	0.00
ATOM	1897	HG	SER A 122	1.079	-7.932	-7.188	1.00	0.00
ATOM	1898	N	VAL A 123	2.811	-6.442	-8.224	1.00	0.00
ATOM	1899	CA	VAL A 123	2.977	-5.093	-7.699	1.00	0.00
ATOM	1900	C	VAL A 123	3.493	-4.145	-8.778	1.00	0.00
ATOM	1901	O	VAL A 123	4.279	-4.538	-9.639	1.00	0.00
ATOM	1902	CB	VAL A 123	3.948	-5.071	-6.502	1.00	0.00
ATOM	1903	CG1	VAL A 123	4.009	-3.681	-5.886	1.00	0.00
ATOM	1904	CG2	VAL A 123	3.540	-6.104	-5.463	1.00	0.00
ATOM	1905	H	VAL A 123	3.356	-7.169	-7.856	1.00	0.00
ATOM	1906	HA	VAL A 123	2.012	-4.746	-7.360	1.00	0.00
ATOM	1907	HB	VAL A 123	4.935	-5.324	-6.861	1.00	0.00
ATOM	1908	1HG1	VAL A 123	3.012	-3.359	-5.627	1.00	0.00
ATOM	1909	2HG1	VAL A 123	4.438	-2.991	-6.597	1.00	0.00
ATOM	1910	3HG1	VAL A 123	4.622	-3.709	-4.997	1.00	0.00
ATOM	1911	1HG2	VAL A 123	2.933	-6.866	-5.930	1.00	0.00
ATOM	1912	2HG2	VAL A 123	2.973	-5.622	-4.680	1.00	0.00
ATOM	1913	3HG2	VAL A 123	4.424	-6.558	-5.040	1.00	0.00
ATOM	1914	N	PHE A 124	3.044	-2.896	-8.722	1.00	0.00
ATOM	1915	CA	PHE A 124	3.460	-1.890	-9.693	1.00	0.00
ATOM	1916	C	PHE A 124	2.968	-0.506	-9.284	1.00	0.00
ATOM	1917	O	PHE A 124	1.781	-0.308	-9.028	1.00	0.00

ATOM	1918	CB	PHE A 124	2.927	-2.242	-11.083	1.00	0.00
ATOM	1919	CG	PHE A 124	3.643	-1.535	-12.199	1.00	0.00
ATOM	1920	CD1	PHE A 124	4.378	-2.248	-13.130	1.00	0.00
ATOM	1921	CD2	PHE A 124	3.579	-0.155	-12.315	1.00	0.00
ATOM	1922	CE1	PHE A 124	5.038	-1.601	-14.158	1.00	0.00
ATOM	1923	CE2	PHE A 124	4.237	0.498	-13.340	1.00	0.00
ATOM	1924	CZ	PHE A 124	4.967	-0.226	-14.263	1.00	0.00
ATOM	1925	H	PHE A 124	2.418	-2.644	-8.011	1.00	0.00
ATOM	1926	HA	PHE A 124	4.539	-1.883	-9.722	1.00	0.00
ATOM	1927	1HB	PHE A 124	3.033	-3.305	-11.243	1.00	0.00
ATOM	1928	2HB	PHE A 124	1.881	-1.978	-11.138	1.00	0.00
ATOM	1929	HD1	PHE A 124	4.434	-3.324	-13.049	1.00	0.00
ATOM	1930	HD2	PHE A 124	3.009	0.412	-11.595	1.00	0.00
ATOM	1931	HE1	PHE A 124	5.608	-2.169	-14.878	1.00	0.00
ATOM	1932	HE2	PHE A 124	4.179	1.575	-13.420	1.00	0.00
ATOM	1933	HZ	PHE A 124	5.481	0.283	-15.065	1.00	0.00
ATOM	1934	N	VAL A 125	3.889	0.450	-9.226	1.00	0.00
ATOM	1935	CA	VAL A 125	3.547	1.816	-8.849	1.00	0.00
ATOM	1936	C	VAL A 125	4.070	2.816	-9.876	1.00	0.00
ATOM	1937	O	VAL A 125	5.278	2.992	-10.027	1.00	0.00
ATOM	1938	CB	VAL A 125	4.108	2.174	-7.458	1.00	0.00
ATOM	1939	CG1	VAL A 125	5.627	2.090	-7.453	1.00	0.00
ATOM	1940	CG2	VAL A 125	3.638	3.557	-7.028	1.00	0.00
ATOM	1941	H	VAL A 125	4.819	0.232	-9.442	1.00	0.00
ATOM	1942	HA	VAL A 125	2.471	1.889	-8.809	1.00	0.00
ATOM	1943	HB	VAL A 125	3.730	1.454	-6.746	1.00	0.00
ATOM	1944	1HG1	VAL A 125	5.953	1.422	-8.236	1.00	0.00

ATOM	1945	2HG1	VAL	A	125	5.963	1.718	-6.497	1.00	0.00
ATOM	1946	3HG1	VAL	A	125	6.042	3.073	-7.621	1.00	0.00
ATOM	1947	1HG2	VAL	A	125	4.463	4.253	-7.089	1.00	0.00
ATOM	1948	2HG2	VAL	A	125	3.277	3.515	-6.012	1.00	0.00
ATOM	1949	3HG2	VAL	A	125	2.842	3.886	-7.679	1.00	0.00
ATOM	1950	N	ASP	A	126	3.149	3.469	-10.580	1.00	0.00
ATOM	1951	CA	ASP	A	126	3.515	4.452	-11.593	1.00	0.00
ATOM	1952	C	ASP	A	126	2.855	5.798	-11.310	1.00	0.00
ATOM	1953	O	ASP	A	126	1.883	5.878	-10.559	1.00	0.00
ATOM	1954	CB	ASP	A	126	3.115	3.954	-12.984	1.00	0.00
ATOM	1955	CG	ASP	A	126	4.254	4.044	-13.979	1.00	0.00
ATOM	1956	OD1	ASP	A	126	4.041	4.606	-15.075	1.00	0.00
ATOM	1957	OD2	ASP	A	126	5.359	3.555	-13.665	1.00	0.00
ATOM	1958	H	ASP	A	126	2.201	3.285	-10.413	1.00	0.00
ATOM	1959	HA	ASP	A	126	4.588	4.577	-11.560	1.00	0.00
ATOM	1960	1HB	ASP	A	126	2.805	2.922	-12.914	1.00	0.00
ATOM	1961	2HB	ASP	A	126	2.291	4.548	-13.351	1.00	0.00
ATOM	1962	N	SER	A	127	3.390	6.852	-11.917	1.00	0.00
ATOM	1963	CA	SER	A	127	2.853	8.195	-11.732	1.00	0.00
ATOM	1964	C	SER	A	127	1.557	8.376	-12.515	1.00	0.00
ATOM	1965	O	SER	A	127	1.574	8.777	-13.679	1.00	0.00
ATOM	1966	CB	SER	A	127	3.878	9.242	-12.172	1.00	0.00
ATOM	1967	OG	SER	A	127	4.924	9.365	-11.224	1.00	0.00
ATOM	1968	H	SER	A	127	4.164	6.724	-12.504	1.00	0.00
ATOM	1969	HA	SER	A	127	2.647	8.327	-10.680	1.00	0.00
ATOM	1970	1HB	SER	A	127	4.304	8.950	-13.121	1.00	0.00
ATOM	1971	2HB	SER	A	127	3.390	10.200	-12.277	1.00	0.00

ATOM 1972	HG	SER A 127	4.819	10.185	-10.735	1.00	0.00
ATOM 1973	N	GLY A 128	0.435	8.078	-11.868	1.00	0.00
ATOM 1974	CA	GLY A 128	-0.857	8.213	-12.519	1.00	0.00
ATOM 1975	C	GLY A 128	-0.958	7.385	-13.785	1.00	0.00
ATOM 1976	O	GLY A 128	-0.022	6.665	-14.135	1.00	0.00
ATOM 1977	H	GLY A 128	0.483	7.763	-10.942	1.00	0.00
ATOM 1978	1HA	GLY A 128	-1.627	7.896	-11.832	1.00	0.00
ATOM 1979	2HA	GLY A 128	-1.015	9.252	-12.766	1.00	0.00
ATOM 1980	N	PRO A 129	-2.093	7.464	-14.501	1.00	0.00
ATOM 1981	CA	PRO A 129	-2.299	6.708	-15.736	1.00	0.00
ATOM 1982	C	PRO A 129	-1.576	7.330	-16.928	1.00	0.00
ATOM 1983	O	PRO A 129	-0.887	6.637	-17.678	1.00	0.00
ATOM 1984	CB	PRO A 129	-3.813	6.773	-15.934	1.00	0.00
ATOM 1985	CG	PRO A 129	-4.228	8.052	-15.291	1.00	0.00
ATOM 1986	CD	PRO A 129	-3.263	8.296	-14.158	1.00	0.00
ATOM 1987	HA	PRO A 129	-1.991	5.679	-15.627	1.00	0.00
ATOM 1988	1HB	PRO A 129	-4.041	6.768	-16.990	1.00	0.00
ATOM 1989	2HB	PRO A 129	-4.277	5.923	-15.456	1.00	0.00
ATOM 1990	1HG	PRO A 129	-4.173	8.857	-16.009	1.00	0.00
ATOM 1991	2HG	PRO A 129	-5.235	7.959	-14.909	1.00	0.00
ATOM 1992	1HD	PRO A 129	-2.991	9.341	-14.115	1.00	0.00
ATOM 1993	2HD	PRO A 129	-3.696	7.981	-13.221	1.00	0.00
ATOM 1994	N	SER A 130	-1.737	8.639	-17.097	1.00	0.00
ATOM 1995	CA	SER A 130	-1.098	9.355	-18.198	1.00	0.00
ATOM 1996	C	SER A 130	-1.519	10.821	-18.210	1.00	0.00
ATOM 1997	O	SER A 130	-2.697	11.140	-18.042	1.00	0.00
ATOM 1998	CB	SER A 130	-1.450	8.702	-19.537	1.00	0.00

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ATOM	1999	OG	SER A 130	-2.843	8.454	-19.633	1.00	0.00
ATOM	2000	H	SER A 130	-2.296	9.137	-16.467	1.00	0.00
ATOM	2001	HA	SER A 130	-0.029	9.301	-18.052	1.00	0.00
ATOM	2002	1HB	SER A 130	-1.158	9.359	-20.343	1.00	0.00
ATOM	2003	2HB	SER A 130	-0.923	7.764	-19.628	1.00	0.00
ATOM	2004	HG	SER A 130	-3.130	7.938	-18.877	1.00	0.00
ATOM	2005	N	SER A 131	-0.550	11.708	-18.408	1.00	0.00
ATOM	2006	CA	SER A 131	-0.822	13.141	-18.441	1.00	0.00
ATOM	2007	C	SER A 131	-1.051	13.619	-19.872	1.00	0.00
ATOM	2008	O	SER A 131	-0.912	12.851	-20.824	1.00	0.00
ATOM	2009	CB	SER A 131	0.336	13.915	-17.812	1.00	0.00
ATOM	2010	OG	SER A 131	0.098	14.161	-16.436	1.00	0.00
ATOM	2011	H	SER A 131	0.369	11.393	-18.535	1.00	0.00
ATOM	2012	HA	SER A 131	-1.719	13.322	-17.867	1.00	0.00
ATOM	2013	1HB	SER A 131	1.246	13.342	-17.909	1.00	0.00
ATOM	2014	2HB	SER A 131	0.452	14.863	-18.319	1.00	0.00
ATOM	2015	HG	SER A 131	0.894	13.970	-15.933	1.00	0.00
ATOM	2016	N	GLY A 132	-1.403	14.892	-20.015	1.00	0.00
ATOM	2017	CA	GLY A 132	-1.645	15.452	-21.332	1.00	0.00
ATOM	2018	C	GLY A 132	-1.478	16.958	-21.361	1.00	0.00
ATOM	2019	H	GLY A 132	-1.498	15.457	-19.220	1.00	0.00
ATOM	2020	1HA	GLY A 132	-0.951	15.010	-22.032	1.00	0.00
ATOM	2021	2HA	GLY A 132	-2.651	15.206	-21.635	1.00	0.00
TER	2022		GLY A 132					

ENDMDL

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ATOM 1	N	GLY A	1	9.738	45.080	-9.603	1.00	0.00
ATOM 2	CA	GLY A	1	9.211	44.049	-10.539	1.00	0.00
ATOM 3	C	GLY A	1	9.824	42.683	-10.302	1.00	0.00
ATOM 4	O	GLY A	1	10.239	42.009	-11.244	1.00	0.00
ATOM 5	1H	GLY A	1	9.445	44.862	-8.630	1.00	0.00
ATOM 6	2H	GLY A	1	9.370	46.018	-9.861	1.00	0.00
ATOM 7	3H	GLY A	1	10.776	45.105	-9.646	1.00	0.00
ATOM 8	1HA	GLY A	1	8.141	43.977	-10.413	1.00	0.00
ATOM 9	2HA	GLY A	1	9.424	44.355	-11.552	1.00	0.00
ATOM 10	N	SER A	2	9.883	42.275	-9.037	1.00	0.00
ATOM 11	CA	SER A	2	10.450	40.980	-8.678	1.00	0.00
ATOM 12	C	SER A	2	9.661	40.337	-7.543	1.00	0.00
ATOM 13	O	SER A	2	8.972	41.022	-6.786	1.00	0.00
ATOM 14	CB	SER A	2	11.916	41.138	-8.270	1.00	0.00
ATOM 15	OG	SER A	2	12.736	41.397	-9.397	1.00	0.00
ATOM 16	H	SER A	2	9.536	42.858	-8.330	1.00	0.00
ATOM 17	HA	SER A	2	10.395	40.342	-9.547	1.00	0.00
ATOM 18	1HB	SER A	2	12.009	41.962	-7.578	1.00	0.00
ATOM 19	2HB	SER A	2	12.255	40.229	-7.794	1.00	0.00
ATOM 20	HG	SER A	2	13.501	40.817	-9.376	1.00	0.00
ATOM 21	N	SER A	3	9.764	39.017	-7.431	1.00	0.00
ATOM 22	CA	SER A	3	9.058	38.282	-6.388	1.00	0.00
ATOM 23	C	SER A	3	9.952	37.202	-5.785	1.00	0.00
ATOM 24	O	SER A	3	9.878	36.035	-6.169	1.00	0.00
ATOM 25	CB	SER A	3	7.784	37.650	-6.952	1.00	0.00
ATOM 26	OG	SER A	3	6.741	38.603	-7.047	1.00	0.00
ATOM 27	H	SER A	3	10.328	38.525	-8.065	1.00	0.00

ATOM 28	HA	SER A	3	8.789	38.983	-5.613	1.00	0.00
ATOM 29	1HB	SER A	3	7.986	37.257	-7.937	1.00	0.00
ATOM 30	2HB	SER A	3	7.465	36.847	-6.304	1.00	0.00
ATOM 31	HG	SER A	3	7.079	39.410	-7.445	1.00	0.00
ATOM 32	N	GLY A	4	10.794	37.600	-4.837	1.00	0.00
ATOM 33	CA	GLY A	4	11.690	36.654	-4.196	1.00	0.00
ATOM 34	C	GLY A	4	10.946	35.601	-3.399	1.00	0.00
ATOM 35	O	GLY A	4	11.166	34.404	-3.582	1.00	0.00
ATOM 36	H	GLY A	4	10.809	38.543	-4.571	1.00	0.00
ATOM 37	1HA	GLY A	4	12.281	36.165	-4.955	1.00	0.00
ATOM 38	2HA	GLY A	4	12.349	37.194	-3.532	1.00	0.00
ATOM 39	N	SER A	5	10.064	36.047	-2.510	1.00	0.00
ATOM 40	CA	SER A	5	9.285	35.134	-1.682	1.00	0.00
ATOM 41	C	SER A	5	8.400	34.238	-2.542	1.00	0.00
ATOM 42	O	SER A	5	7.919	34.653	-3.596	1.00	0.00
ATOM 43	CB	SER A	5	8.426	35.918	-0.689	1.00	0.00
ATOM 44	OG	SER A	5	7.523	36.778	-1.363	1.00	0.00
ATOM 45	H	SER A	5	9.933	37.013	-2.410	1.00	0.00
ATOM 46	HA	SER A	5	9.978	34.514	-1.132	1.00	0.00
ATOM 47	1HB	SER A	5	7.859	35.229	-0.082	1.00	0.00
ATOM 48	2HB	SER A	5	9.066	36.514	-0.054	1.00	0.00
ATOM 49	HG	SER A	5	8.013	37.489	-1.786	1.00	0.00
ATOM 50	N	SER A	6	8.190	33.007	-2.085	1.00	0.00
ATOM 51	CA	SER A	6	7.363	32.053	-2.814	1.00	0.00
ATOM 52	C	SER A	6	6.953	30.891	-1.915	1.00	0.00
ATOM 53	O	SER A	6	7.762	30.373	-1.146	1.00	0.00
ATOM 54	CB	SER A	6	8.115	31.526	-4.039	1.00	0.00

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ATOM 55	OG	SER A	6	7.265	31.465	-5.171	1.00	0.00
ATOM 56	H	SER A	6	8.602	32.735	-1.239	1.00	0.00
ATOM 57	HA	SER A	6	6.474	32.569	-3.143	1.00	0.00
ATOM 58	1HB	SER A	6	8.941	32.184	-4.261	1.00	0.00
ATOM 59	2HB	SER A	6	8.489	30.535	-3.831	1.00	0.00
ATOM 60	HG	SER A	6	7.795	31.494	-5.971	1.00	0.00
ATOM 61	N	GLY A	7	5.691	30.487	-2.018	1.00	0.00
ATOM 62	CA	GLY A	7	5.196	29.389	-1.208	1.00	0.00
ATOM 63	C	GLY A	7	3.943	28.762	-1.786	1.00	0.00
ATOM 64	O	GLY A	7	2.831	29.211	-1.508	1.00	0.00
ATOM 65	H	GLY A	7	5.091	30.938	-2.649	1.00	0.00
ATOM 66	1HA	GLY A	7	5.964	28.633	-1.138	1.00	0.00
ATOM 67	2HA	GLY A	7	4.976	29.758	-0.217	1.00	0.00
ATOM 68	N	SER A	8	4.123	27.721	-2.592	1.00	0.00
ATOM 69	CA	SER A	8	2.997	27.030	-3.209	1.00	0.00
ATOM 70	C	SER A	8	2.755	25.680	-2.542	1.00	0.00
ATOM 71	O	SER A	8	3.403	25.342	-1.551	1.00	0.00
ATOM 72	CB	SER A	8	3.251	26.833	-4.706	1.00	0.00
ATOM 73	OG	SER A	8	3.960	27.933	-5.252	1.00	0.00
ATOM 74	H	SER A	8	5.034	27.409	-2.775	1.00	0.00
ATOM 75	HA	SER A	8	2.120	27.645	-3.081	1.00	0.00
ATOM 76	1HB	SER A	8	3.834	25.936	-4.855	1.00	0.00
ATOM 77	2HB	SER A	8	2.306	26.738	-5.219	1.00	0.00
ATOM 78	HG	SER A	8	3.386	28.702	-5.278	1.00	0.00
ATOM 79	N	SER A	9	1.819	24.913	-3.092	1.00	0.00
ATOM 80	CA	SER A	9	1.491	23.599	-2.549	1.00	0.00
ATOM 81	C	SER A	9	0.925	22.690	-3.634	1.00	0.00



ATOM 82	O	SER A	9	-0.220	22.849	-4.057	1.00	0.00
ATOM 83	CB	SER A	9	0.486	23.734	-1.404	1.00	0.00
ATOM 84	OG	SER A	9	0.669	24.953	-0.705	1.00	0.00
ATOM 85	H	SER A	9	1.337	25.238	-3.880	1.00	0.00
ATOM 86	HA	SER A	9	2.401	23.162	-2.168	1.00	0.00
ATOM 87	1HB	SER A	9	-0.517	23.710	-1.803	1.00	0.00
ATOM 88	2HB	SER A	9	0.618	22.913	-0.713	1.00	0.00
ATOM 89	HG	SER A	9	1.493	24.920	-0.212	1.00	0.00
ATOM 90	N	SER A	10	1.734	21.734	-4.079	1.00	0.00
ATOM 91	CA	SER A	10	1.313	20.798	-5.115	1.00	0.00
ATOM 92	C	SER A	10	1.609	19.359	-4.701	1.00	0.00
ATOM 93	O	SER A	10	2.712	19.044	-4.256	1.00	0.00
ATOM 94	CB	SER A	10	2.019	21.116	-6.436	1.00	0.00
ATOM 95	OG	SER A	10	3.383	20.736	-6.390	1.00	0.00
ATOM 96	H	SER A	10	2.635	21.657	-3.703	1.00	0.00
ATOM 97	HA	SER A	10	0.248	20.910	-5.251	1.00	0.00
ATOM 98	1HB	SER A	10	1.536	20.578	-7.238	1.00	0.00
ATOM 99	2HB	SER A	10	1.958	22.177	-6.626	1.00	0.00
ATOM 100	HG	SER A	10	3.491	19.876	-6.804	1.00	0.00
ATOM 101	N	SER A	11	0.615	18.490	-4.854	1.00	0.00
ATOM 102	CA	SER A	11	0.767	17.085	-4.496	1.00	0.00
ATOM 103	C	SER A	11	0.883	16.217	-5.746	1.00	0.00
ATOM 104	O	SER A	11	0.500	16.632	-6.839	1.00	0.00
ATOM 105	CB	SER A	11	-0.417	16.621	-3.646	1.00	0.00
ATOM 106	OG	SER A	11	-1.587	17.360	-3.954	1.00	0.00
ATOM 107	H	SER A	11	-0.241	18.801	-5.214	1.00	0.00
ATOM 108	HA	SER A	11	1.674	16.986	-3.918	1.00	0.00

ATOM 109	1HB	SER A	11	-0.607	15.575	-3.838	1.00	0.00
ATOM 110	2HB	SER A	11	-0.184	16.759	-2.601	1.00	0.00
ATOM 111	N	GLN A	12	1.413	15.009	-5.575	1.00	0.00
ATOM 112	CA	GLN A	12	1.579	14.082	-6.690	1.00	0.00
ATOM 113	C	GLN A	12	0.816	12.786	-6.437	1.00	0.00
ATOM 114	O	GLN A	12	0.608	12.389	-5.290	1.00	0.00
ATOM 115	CB	GLN A	12	3.062	13.781	-6.913	1.00	0.00
ATOM 116	CG	GLN A	12	3.826	13.500	-5.629	1.00	0.00
ATOM 117	CD	GLN A	12	4.621	14.699	-5.150	1.00	0.00
ATOM 118	OE1	GLN A	12	4.199	15.843	-5.311	1.00	0.00
ATOM 119	NE2	GLN A	12	5.781	14.440	-4.557	1.00	0.00
ATOM 120	H	GLN A	12	1.699	14.735	-4.679	1.00	0.00
ATOM 121	HA	GLN A	12	1.179	14.554	-7.574	1.00	0.00
ATOM 122	1HB	GLN A	12	3.149	12.918	-7.555	1.00	0.00
ATOM 123	2HB	GLN A	12	3.520	14.629	-7.400	1.00	0.00
ATOM 124	1HG	GLN A	12	3.121	13.225	-4.859	1.00	0.00
ATOM 125	2HG	GLN A	12	4.507	12.680	-5.803	1.00	0.00
ATOM 126	1HE2	GLN A	12	6.054	13.504	-4.464	1.00	0.00
ATOM 127	2HE2	GLN A	12	6.316	15.196	-4.237	1.00	0.00
ATOM 128	N	HIS A	13	0.403	12.129	-7.518	1.00	0.00
ATOM 129	CA	HIS A	13	-0.338	10.877	-7.415	1.00	0.00
ATOM 130	C	HIS A	13	0.443	9.729	-8.048	1.00	0.00
ATOM 131	O	HIS A	13	0.966	9.856	-9.155	1.00	0.00
ATOM 132	CB	HIS A	13	-1.703	11.010	-8.092	1.00	0.00
ATOM 133	CG	HIS A	13	-2.640	11.936	-7.378	1.00	0.00
ATOM 134	ND1	HIS A	13	-3.935	12.163	-7.794	1.00	0.00
ATOM 135	CD2	HIS A	13	-2.463	12.695	-6.271	1.00	0.00

ATOM 136	CE1	HIS	A	13	-4.514	13.022	-6.973	1.00	0.00
ATOM 137	NE2	HIS	A	13	-3.643	13.359	-6.041	1.00	0.00
ATOM 138	H	HIS	A	13	0.600	12.497	-8.404	1.00	0.00
ATOM 139	HA	HIS	A	13	-0.484	10.663	-6.367	1.00	0.00
ATOM 140	1HB	HIS	A	13	-1.564	11.387	-9.094	1.00	0.00
ATOM 141	2HB	HIS	A	13	-2.169	10.037	-8.140	1.00	0.00
ATOM 142	HD1	HIS	A	13	-4.366	11.755	-8.574	1.00	0.00
ATOM 143	HD2	HIS	A	13	-1.562	12.765	-5.679	1.00	0.00
ATOM 144	HE1	HIS	A	13	-5.528	13.385	-7.052	1.00	0.00
ATOM 145	HE2	HIS	A	13	-3.781	14.054	-5.365	1.00	0.00
ATOM 146	N	PHE	A	14	0.516	8.607	-7.337	1.00	0.00
ATOM 147	CA	PHE	A	14	1.230	7.435	-7.829	1.00	0.00
ATOM 148	C	PHE	A	14	0.322	6.209	-7.828	1.00	0.00
ATOM 149	O	PHE	A	14	0.044	5.631	-6.779	1.00	0.00
ATOM 150	CB	PHE	A	14	2.469	7.170	-6.971	1.00	0.00
ATOM 151	CG	PHE	A	14	3.685	7.929	-7.421	1.00	0.00
ATOM 152	CD1	PHE	A	14	4.358	7.563	-8.576	1.00	0.00
ATOM 153	CD2	PHE	A	14	4.153	9.009	-6.690	1.00	0.00
ATOM 154	CE1	PHE	A	14	5.477	8.260	-8.992	1.00	0.00
ATOM 155	CE2	PHE	A	14	5.271	9.710	-7.102	1.00	0.00
ATOM 156	CZ	PHE	A	14	5.934	9.334	-8.254	1.00	0.00
ATOM 157	H	PHE	A	14	0.078	8.568	-6.461	1.00	0.00
ATOM 158	HA	PHE	A	14	1.542	7.637	-8.843	1.00	0.00
ATOM 159	1HB	PHE	A	14	2.260	7.456	-5.951	1.00	0.00
ATOM 160	2HB	PHE	A	14	2.703	6.116	-7.004	1.00	0.00
ATOM 161	HD1	PHE	A	14	4.002	6.723	-9.153	1.00	0.00
ATOM 162	HD2	PHE	A	14	3.636	9.303	-5.788	1.00	0.00

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ATOM 163	HE1	PHE	A	14	5.994	7.964	-9.893	1.00	0.00
ATOM 164	HE2	PHE	A	14	5.627	10.549	-6.522	1.00	0.00
ATOM 165	HZ	PHE	A	14	6.808	9.881	-8.577	1.00	0.00
ATOM 166	N	ASN	A	15	-0.140	5.821	-9.014	1.00	0.00
ATOM 167	CA	ASN	A	15	-1.023	4.666	-9.156	1.00	0.00
ATOM 168	C	ASN	A	15	-0.429	3.429	-8.486	1.00	0.00
ATOM 169	O	ASN	A	15	0.577	2.888	-8.941	1.00	0.00
ATOM 170	CB	ASN	A	15	-1.287	4.380	-10.636	1.00	0.00
ATOM 171	CG	ASN	A	15	-2.533	5.077	-11.145	1.00	0.00
ATOM 172	OD1	ASN	A	15	-2.477	5.859	-12.095	1.00	0.00
ATOM 173	ND2	ASN	A	15	-3.669	4.796	-10.515	1.00	0.00
ATOM 174	H	ASN	A	15	0.115	6.327	-9.814	1.00	0.00
ATOM 175	HA	ASN	A	15	-1.958	4.904	-8.675	1.00	0.00
ATOM 176	1HB	ASN	A	15	-0.444	4.720	-11.218	1.00	0.00
ATOM 177	2HB	ASN	A	15	-1.410	3.316	-10.774	1.00	0.00
ATOM 178	1HD2	ASN	A	15	-3.638	4.164	-9.768	1.00	0.00
ATOM 179	2HD2	ASN	A	15	-4.489	5.232	-10.825	1.00	0.00
ATOM 180	N	LEU	A	16	-1.064	2.988	-7.403	1.00	0.00
ATOM 181	CA	LEU	A	16	-0.604	1.814	-6.672	1.00	0.00
ATOM 182	C	LEU	A	16	-1.414	0.582	-7.066	1.00	0.00
ATOM 183	O	LEU	A	16	-2.618	0.518	-6.820	1.00	0.00
ATOM 184	CB	LEU	A	16	-0.713	2.052	-5.165	1.00	0.00
ATOM 185	CG	LEU	A	16	-0.014	1.011	-4.290	1.00	0.00
ATOM 186	CD1	LEU	A	16	1.498	1.156	-4.392	1.00	0.00
ATOM 187	CD2	LEU	A	16	-0.469	1.141	-2.844	1.00	0.00
ATOM 188	H	LEU	A	16	-1.863	3.462	-7.091	1.00	0.00
ATOM 189	HA	LEU	A	16	0.432	1.646	-6.928	1.00	0.00

ATOM 190	1HB	LEU	A	16	-0.290	3.021	-4.944	1.00	0.00
ATOM 191	2HB	LEU	A	16	-1.760	2.067	-4.900	1.00	0.00
ATOM 192	HG	LEU	A	16	-0.278	0.023	-4.637	1.00	0.00
ATOM 193	1HD1	LEU	A	16	1.912	1.318	-3.408	1.00	0.00
ATOM 194	2HD1	LEU	A	16	1.739	1.997	-5.026	1.00	0.00
ATOM 195	3HD1	LEU	A	16	1.918	0.255	-4.814	1.00	0.00
ATOM 196	1HD2	LEU	A	16	-0.363	0.188	-2.346	1.00	0.00
ATOM 197	2HD2	LEU	A	16	-1.504	1.447	-2.819	1.00	0.00
ATOM 198	3HD2	LEU	A	16	0.137	1.880	-2.340	1.00	0.00
ATOM 199	N	ASN	A	17	-0.749	-0.391	-7.682	1.00	0.00
ATOM 200	CA	ASN	A	17	-1.417	-1.613	-8.112	1.00	0.00
ATOM 201	C	ASN	A	17	-0.651	-2.852	-7.656	1.00	0.00
ATOM 202	O	ASN	A	17	0.579	-2.887	-7.697	1.00	0.00
ATOM 203	CB	ASN	A	17	-1.567	-1.628	-9.634	1.00	0.00
ATOM 204	CG	ASN	A	17	-2.541	-0.576	-10.129	1.00	0.00
ATOM 205	OD1	ASN	A	17	-2.182	0.588	-10.301	1.00	0.00
ATOM 206	ND2	ASN	A	17	-3.784	-0.984	-10.360	1.00	0.00
ATOM 207	H	ASN	A	17	0.210	-0.281	-7.854	1.00	0.00
ATOM 208	HA	ASN	A	17	-2.398	-1.629	-7.664	1.00	0.00
ATOM 209	1HB	ASN	A	17	-0.604	-1.440	-10.087	1.00	0.00
ATOM 210	2HB	ASN	A	17	-1.923	-2.599	-9.945	1.00	0.00
ATOM 211	1HD2	ASN	A	17	-4.000	-1.926	-10.200	1.00	0.00
ATOM 212	2HD2	ASN	A	17	-4.435	-0.325	-10.681	1.00	0.00
ATOM 213	N	PHE	A	18	-1.392	-3.869	-7.229	1.00	0.00
ATOM 214	CA	PHE	A	18	-0.797	-5.119	-6.769	1.00	0.00
ATOM 215	C	PHE	A	18	-1.882	-6.118	-6.381	1.00	0.00
ATOM 216	O	PHE	A	18	-2.779	-5.802	-5.599	1.00	0.00

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ATOM 217	CB	PHE A	18	0.141	-4.867	-5.586	1.00	0.00
ATOM 218	CG	PHE A	18	-0.552	-4.326	-4.369	1.00	0.00
ATOM 219	CD1	PHE A	18	-0.746	-5.125	-3.254	1.00	0.00
ATOM 220	CD2	PHE A	18	-1.008	-3.017	-4.340	1.00	0.00
ATOM 221	CE1	PHE A	18	-1.380	-4.628	-2.131	1.00	0.00
ATOM 222	CE2	PHE A	18	-1.643	-2.515	-3.219	1.00	0.00
ATOM 223	CZ	PHE A	18	-1.829	-3.322	-2.113	1.00	0.00
ATOM 224	H	PHE A	18	-2.368	-3.779	-7.226	1.00	0.00
ATOM 225	HA	PHE A	18	-0.225	-5.530	-7.588	1.00	0.00
ATOM 226	1HB	PHE A	18	0.615	-5.797	-5.310	1.00	0.00
ATOM 227	2HB	PHE A	18	0.898	-4.157	-5.881	1.00	0.00
ATOM 228	HD1	PHE A	18	-0.394	-6.147	-3.266	1.00	0.00
ATOM 229	HD2	PHE A	18	-0.862	-2.385	-5.203	1.00	0.00
ATOM 230	HE1	PHE A	18	-1.525	-5.260	-1.269	1.00	0.00
ATOM 231	HE2	PHE A	18	-1.992	-1.494	-3.209	1.00	0.00
ATOM 232	HZ	PHE A	18	-2.325	-2.933	-1.236	1.00	0.00
ATOM 233	N	THR A	19	-1.798	-7.321	-6.940	1.00	0.00
ATOM 234	CA	THR A	19	-2.779	-8.364	-6.659	1.00	0.00
ATOM 235	C	THR A	19	-2.427	-9.131	-5.389	1.00	0.00
ATOM 236	O	THR A	19	-1.265	-9.456	-5.148	1.00	0.00
ATOM 237	CB	THR A	19	-2.874	-9.331	-7.841	1.00	0.00
ATOM 238	OG1	THR A	19	-3.070	-8.624	-9.053	1.00	0.00
ATOM 239	CG2	THR A	19	-3.999	-10.333	-7.705	1.00	0.00
ATOM 240	H	THR A	19	-1.064	-7.510	-7.561	1.00	0.00
ATOM 241	HA	THR A	19	-3.738	-7.887	-6.522	1.00	0.00
ATOM 242	HB	THR A	19	-1.947	-9.882	-7.916	1.00	0.00
ATOM 243	HG1	THR A	19	-2.327	-8.036	-9.205	1.00	0.00

ATOM 244	1HG2	THR	A	19	-3.594	-11.334	-7.722	1.00	0.00
ATOM 245	2HG2	THR	A	19	-4.691	-10.210	-8.525	1.00	0.00
ATOM 246	3HG2	THR	A	19	-4.517	-10.170	-6.771	1.00	0.00
ATOM 247	N	ILE	A	20	-3.445	-9.423	-4.583	1.00	0.00
ATOM 248	CA	ILE	A	20	-3.251	-10.159	-3.340	1.00	0.00
ATOM 249	C	ILE	A	20	-3.777	-11.585	-3.465	1.00	0.00
ATOM 250	O	ILE	A	20	-4.906	-11.804	-3.903	1.00	0.00
ATOM 251	CB	ILE	A	20	-3.961	-9.466	-2.160	1.00	0.00
ATOM 252	CG1	ILE	A	20	-3.597	-7.980	-2.119	1.00	0.00
ATOM 253	CG2	ILE	A	20	-3.595	-10.143	-0.846	1.00	0.00
ATOM 254	CD1	ILE	A	20	-4.550	-7.149	-1.286	1.00	0.00
ATOM 255	H	ILE	A	20	-4.347	-9.140	-4.835	1.00	0.00
ATOM 256	HA	ILE	A	20	-2.192	-10.191	-3.131	1.00	0.00
ATOM 257	HB	ILE	A	20	-5.026	-9.564	-2.301	1.00	0.00
ATOM 258	1HG1	ILE	A	20	-2.610	-7.869	-1.700	1.00	0.00
ATOM 259	2HG1	ILE	A	20	-3.604	-7.585	-3.124	1.00	0.00
ATOM 260	1HG2	ILE	A	20	-3.357	-9.393	-0.106	1.00	0.00
ATOM 261	2HG2	ILE	A	20	-2.738	-10.784	-0.997	1.00	0.00
ATOM 262	3HG2	ILE	A	20	-4.430	-10.735	-0.503	1.00	0.00
ATOM 263	1HD1	ILE	A	20	-4.044	-6.261	-0.938	1.00	0.00
ATOM 264	2HD1	ILE	A	20	-4.886	-7.727	-0.439	1.00	0.00
ATOM 265	3HD1	ILE	A	20	-5.401	-6.864	-1.889	1.00	0.00
ATOM 266	N	THR	A	21	-2.951	-12.553	-3.078	1.00	0.00
ATOM 267	CA	THR	A	21	-3.335	-13.958	-3.147	1.00	0.00
ATOM 268	C	THR	A	21	-3.867	-14.452	-1.805	1.00	0.00
ATOM 269	O	THR	A	21	-3.884	-15.654	-1.540	1.00	0.00
ATOM 270	CB	THR	A	21	-2.142	-14.811	-3.580	1.00	0.00

ATOM 271	OG1	THR	A	21	-1.139	-14.813	-2.579	1.00	0.00
ATOM 272	CG2	THR	A	21	-1.504	-14.338	-4.868	1.00	0.00
ATOM 273	H	THR	A	21	-2.064	-12.316	-2.737	1.00	0.00
ATOM 274	HA	THR	A	21	-4.117	-14.050	-3.886	1.00	0.00
ATOM 275	HB	THR	A	21	-2.475	-15.828	-3.729	1.00	0.00
ATOM 276	HG1	THR	A	21	-0.794	-13.923	-2.469	1.00	0.00
ATOM 277	1HG2	THR	A	21	-2.237	-13.811	-5.460	1.00	0.00
ATOM 278	2HG2	THR	A	21	-1.138	-15.190	-5.422	1.00	0.00
ATOM 279	3HG2	THR	A	21	-0.681	-13.677	-4.641	1.00	0.00
ATOM 280	N	ASN	A	22	-4.301	-13.521	-0.961	1.00	0.00
ATOM 281	CA	ASN	A	22	-4.833	-13.868	0.352	1.00	0.00
ATOM 282	C	ASN	A	22	-6.322	-13.549	0.437	1.00	0.00
ATOM 283	O	ASN	A	22	-7.072	-14.223	1.141	1.00	0.00
ATOM 284	CB	ASN	A	22	-4.075	-13.116	1.448	1.00	0.00
ATOM 285	CG	ASN	A	22	-4.302	-13.715	2.822	1.00	0.00
ATOM 286	OD1	ASN	A	22	-4.015	-14.889	3.055	1.00	0.00
ATOM 287	ND2	ASN	A	22	-4.820	-12.909	3.742	1.00	0.00
ATOM 288	H	ASN	A	22	-4.264	-12.578	-1.227	1.00	0.00
ATOM 289	HA	ASN	A	22	-4.695	-14.929	0.495	1.00	0.00
ATOM 290	1HB	ASN	A	22	-3.018	-13.146	1.232	1.00	0.00
ATOM 291	2HB	ASN	A	22	-4.406	-12.087	1.465	1.00	0.00
ATOM 292	1HD2	ASN	A	22	-5.025	-11.985	3.485	1.00	0.00
ATOM 293	2HD2	ASN	A	22	-4.977	-13.271	4.639	1.00	0.00
ATOM 294	N	LEU	A	23	-6.743	-12.516	-0.287	1.00	0.00
ATOM 295	CA	LEU	A	23	-8.143	-12.108	-0.295	1.00	0.00
ATOM 296	C	LEU	A	23	-8.902	-12.795	-1.431	1.00	0.00
ATOM 297	O	LEU	A	23	-8.751	-12.428	-2.596	1.00	0.00



ATOM 298	CB	LEU	A	23	-8.246	-10.588	-0.443	1.00	0.00
ATOM 299	CG	LEU	A	23	-9.561	-9.975	0.043	1.00	0.00
ATOM 300	CD1	LEU	A	23	-10.703	-10.352	-0.887	1.00	0.00
ATOM 301	CD2	LEU	A	23	-9.862	-10.420	1.468	1.00	0.00
ATOM 302	H	LEU	A	23	-6.098	-12.017	-0.828	1.00	0.00
ATOM 303	HA	LEU	A	23	-8.578	-12.399	0.647	1.00	0.00
ATOM 304	1HB	LEU	A	23	-7.436	-10.137	0.112	1.00	0.00
ATOM 305	2HB	LEU	A	23	-8.125	-10.339	-1.487	1.00	0.00
ATOM 306	HG	LEU	A	23	-9.471	-8.898	0.041	1.00	0.00
ATOM 307	1HD1	LEU	A	23	-11.365	-9.507	-1.004	1.00	0.00
ATOM 308	2HD1	LEU	A	23	-11.251	-11.183	-0.467	1.00	0.00
ATOM 309	3HD1	LEU	A	23	-10.304	-10.633	-1.851	1.00	0.00
ATOM 310	1HD2	LEU	A	23	-10.378	-9.628	1.990	1.00	0.00
ATOM 311	2HD2	LEU	A	23	-8.936	-10.643	1.978	1.00	0.00
ATOM 312	3HD2	LEU	A	23	-10.483	-11.302	1.446	1.00	0.00
ATOM 313	N	PRO	A	24	-9.730	-13.806	-1.107	1.00	0.00
ATOM 314	CA	PRO	A	24	-10.508	-14.538	-2.115	1.00	0.00
ATOM 315	C	PRO	A	24	-11.580	-13.669	-2.763	1.00	0.00
ATOM 316	O	PRO	A	24	-12.351	-13.000	-2.075	1.00	0.00
ATOM 317	CB	PRO	A	24	-11.149	-15.676	-1.317	1.00	0.00
ATOM 318	CG	PRO	A	24	-11.190	-15.182	0.088	1.00	0.00
ATOM 319	CD	PRO	A	24	-9.975	-14.315	0.255	1.00	0.00
ATOM 320	HA	PRO	A	24	-9.868	-14.949	-2.883	1.00	0.00
ATOM 321	1HB	PRO	A	24	-12.142	-15.871	-1.696	1.00	0.00
ATOM 322	2HB	PRO	A	24	-10.544	-16.567	-1.404	1.00	0.00
ATOM 323	1HG	PRO	A	24	-12.088	-14.605	0.248	1.00	0.00
ATOM 324	2HG	PRO	A	24	-11.152	-16.017	0.772	1.00	0.00

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ATOM 325	1HD	PRO	A	24	-10.182	-13.505	0.939	1.00	0.00
ATOM 326	2HD	PRO	A	24	-9.137	-14.901	0.604	1.00	0.00
ATOM 327	N	TYR	A	25	-11.621	-13.685	-4.091	1.00	0.00
ATOM 328	CA	TYR	A	25	-12.598	-12.900	-4.837	1.00	0.00
ATOM 329	C	TYR	A	25	-14.016	-13.389	-4.563	1.00	0.00
ATOM 330	O	TYR	A	25	-14.228	-14.554	-4.227	1.00	0.00
ATOM 331	CB	TYR	A	25	-12.303	-12.972	-6.336	1.00	0.00
ATOM 332	CG	TYR	A	25	-12.757	-11.750	-7.104	1.00	0.00
ATOM 333	CD1	TYR	A	25	-13.648	-11.864	-8.164	1.00	0.00
ATOM 334	CD2	TYR	A	25	-12.294	-10.484	-6.769	1.00	0.00
ATOM 335	CE1	TYR	A	25	-14.065	-10.751	-8.868	1.00	0.00
ATOM 336	CE2	TYR	A	25	-12.708	-9.365	-7.468	1.00	0.00
ATOM 337	CZ	TYR	A	25	-13.592	-9.505	-8.517	1.00	0.00
ATOM 338	OH	TYR	A	25	-14.005	-8.394	-9.217	1.00	0.00
ATOM 339	H	TYR	A	25	-10.980	-14.239	-4.583	1.00	0.00
ATOM 340	HA	TYR	A	25	-12.515	-11.873	-4.512	1.00	0.00
ATOM 341	1HB	TYR	A	25	-11.239	-13.076	-6.482	1.00	0.00
ATOM 342	2HB	TYR	A	25	-12.805	-13.832	-6.753	1.00	0.00
ATOM 343	HD1	TYR	A	25	-14.017	-12.842	-8.437	1.00	0.00
ATOM 344	HD2	TYR	A	25	-11.602	-10.378	-5.948	1.00	0.00
ATOM 345	HE1	TYR	A	25	-14.758	-10.860	-9.690	1.00	0.00
ATOM 346	HE2	TYR	A	25	-12.338	-8.389	-7.193	1.00	0.00
ATOM 347	HH	TYR	A	25	-14.063	-8.607	-10.151	1.00	0.00
ATOM 348	N	SER	A	26	-14.984	-12.490	-4.710	1.00	0.00
ATOM 349	CA	SER	A	26	-16.384	-12.829	-4.479	1.00	0.00
ATOM 350	C	SER	A	26	-17.306	-11.799	-5.123	1.00	0.00
ATOM 351	O	SER	A	26	-16.879	-10.696	-5.464	1.00	0.00

ATOM 352	CB	SER A	26	-16.668	-12.918	-2.979	1.00	0.00
ATOM 353	OG	SER A	26	-15.592	-13.532	-2.291	1.00	0.00
ATOM 354	H	SER A	26	-14.752	-11.577	-4.980	1.00	0.00
ATOM 355	HA	SER A	26	-16.569	-13.793	-4.929	1.00	0.00
ATOM 356	1HB	SER A	26	-16.813	-11.924	-2.582	1.00	0.00
ATOM 357	2HB	SER A	26	-17.563	-13.504	-2.818	1.00	0.00
ATOM 358	HG	SER A	26	-15.386	-14.373	-2.703	1.00	0.00
ATOM 359	N	GLN A	27	-18.572	-12.168	-5.289	1.00	0.00
ATOM 360	CA	GLN A	27	-19.554	-11.275	-5.893	1.00	0.00
ATOM 361	C	GLN A	27	-19.695	-9.991	-5.082	1.00	0.00
ATOM 362	O	GLN A	27	-19.982	-8.927	-5.630	1.00	0.00
ATOM 363	CB	GLN A	27	-20.911	-11.974	-6.003	1.00	0.00
ATOM 364	CG	GLN A	27	-21.716	-11.549	-7.220	1.00	0.00
ATOM 365	CD	GLN A	27	-22.896	-10.668	-6.861	1.00	0.00
ATOM 366	OE1	GLN A	27	-23.943	-11.156	-6.433	1.00	0.00
ATOM 367	NE2	GLN A	27	-22.735	-9.361	-7.035	1.00	0.00
ATOM 368	H	GLN A	27	-18.853	-13.061	-4.998	1.00	0.00
ATOM 369	HA	GLN A	27	-19.207	-11.024	-6.885	1.00	0.00
ATOM 370	1HB	GLN A	27	-20.749	-13.041	-6.059	1.00	0.00
ATOM 371	2HB	GLN A	27	-21.490	-11.752	-5.120	1.00	0.00
ATOM 372	1HG	GLN A	27	-21.070	-11.003	-7.891	1.00	0.00
ATOM 373	2HG	GLN A	27	-22.084	-12.435	-7.719	1.00	0.00
ATOM 374	1HE2	GLN A	27	-21.874	-9.044	-7.382	1.00	0.00
ATOM 375	2HE2	GLN A	27	-23.481	-8.768	-6.811	1.00	0.00
ATOM 376	N	ASP A	28	-19.491	-10.098	-3.772	1.00	0.00
ATOM 377	CA	ASP A	28	-19.596	-8.944	-2.887	1.00	0.00
ATOM 378	C	ASP A	28	-18.449	-7.969	-3.127	1.00	0.00

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ATOM 379	O	ASP	A	28	-18.649	-6.755	-3.163	1.00	0.00
ATOM 380	CB	ASP	A	28	-19.598	-9.396	-1.425	1.00	0.00
ATOM 381	CG	ASP	A	28	-20.895	-10.078	-1.034	1.00	0.00
ATOM 382	OD1	ASP	A	28	-21.429	-9.760	0.050	1.00	0.00
ATOM 383	OD2	ASP	A	28	-21.376	-10.929	-1.811	1.00	0.00
ATOM 384	H	ASP	A	28	-19.265	-10.973	-3.394	1.00	0.00
ATOM 385	HA	ASP	A	28	-20.529	-8.445	-3.102	1.00	0.00
ATOM 386	1HB	ASP	A	28	-18.787	-10.091	-1.268	1.00	0.00
ATOM 387	2HB	ASP	A	28	-19.459	-8.535	-0.788	1.00	0.00
ATOM 388	N	ILE	A	29	-17.245	-8.508	-3.291	1.00	0.00
ATOM 389	CA	ILE	A	29	-16.064	-7.687	-3.529	1.00	0.00
ATOM 390	C	ILE	A	29	-16.174	-6.920	-4.846	1.00	0.00
ATOM 391	O	ILE	A	29	-15.444	-5.955	-5.073	1.00	0.00
ATOM 392	CB	ILE	A	29	-14.780	-8.539	-3.546	1.00	0.00
ATOM 393	CG1	ILE	A	29	-14.687	-9.386	-2.275	1.00	0.00
ATOM 394	CG2	ILE	A	29	-13.552	-7.652	-3.686	1.00	0.00
ATOM 395	CD1	ILE	A	29	-14.652	-8.565	-1.004	1.00	0.00
ATOM 396	H	ILE	A	29	-17.149	-9.483	-3.253	1.00	0.00
ATOM 397	HA	ILE	A	29	-15.987	-6.976	-2.718	1.00	0.00
ATOM 398	HB	ILE	A	29	-14.821	-9.195	-4.404	1.00	0.00
ATOM 399	1HG1	ILE	A	29	-15.544	-10.041	-2.222	1.00	0.00
ATOM 400	2HG1	ILE	A	29	-13.788	-9.982	-2.312	1.00	0.00
ATOM 401	1HG2	ILE	A	29	-13.525	-7.228	-4.679	1.00	0.00
ATOM 402	2HG2	ILE	A	29	-12.662	-8.241	-3.522	1.00	0.00
ATOM 403	3HG2	ILE	A	29	-13.597	-6.857	-2.956	1.00	0.00
ATOM 404	1HD1	ILE	A	29	-15.472	-8.856	-0.364	1.00	0.00
ATOM 405	2HD1	ILE	A	29	-14.741	-7.517	-1.249	1.00	0.00

ATOM 406	3HD1	ILE	A	29	-13.717	-8.736	-0.491	1.00	0.00
ATOM 407	N	ALA	A	30	-17.087	-7.352	-5.712	1.00	0.00
ATOM 408	CA	ALA	A	30	-17.285	-6.700	-7.001	1.00	0.00
ATOM 409	C	ALA	A	30	-18.440	-5.704	-6.942	1.00	0.00
ATOM 410	O	ALA	A	30	-19.100	-5.444	-7.947	1.00	0.00
ATOM 411	CB	ALA	A	30	-17.536	-7.739	-8.084	1.00	0.00
ATOM 412	H	ALA	A	30	-17.642	-8.125	-5.479	1.00	0.00
ATOM 413	HA	ALA	A	30	-16.378	-6.170	-7.248	1.00	0.00
ATOM 414	1HB	ALA	A	30	-16.591	-8.088	-8.474	1.00	0.00
ATOM 415	2HB	ALA	A	30	-18.113	-7.295	-8.882	1.00	0.00
ATOM 416	3HB	ALA	A	30	-18.082	-8.571	-7.664	1.00	0.00
ATOM 417	N	GLN	A	31	-18.677	-5.151	-5.757	1.00	0.00
ATOM 418	CA	GLN	A	31	-19.751	-4.184	-5.563	1.00	0.00
ATOM 419	C	GLN	A	31	-19.661	-3.547	-4.176	1.00	0.00
ATOM 420	O	GLN	A	31	-19.921	-4.204	-3.168	1.00	0.00
ATOM 421	CB	GLN	A	31	-21.111	-4.860	-5.738	1.00	0.00
ATOM 422	CG	GLN	A	31	-21.668	-4.745	-7.148	1.00	0.00
ATOM 423	CD	GLN	A	31	-22.988	-4.001	-7.197	1.00	0.00
ATOM 424	OE1	GLN	A	31	-23.330	-3.259	-6.276	1.00	0.00
ATOM 425	NE2	GLN	A	31	-23.737	-4.196	-8.276	1.00	0.00
ATOM 426	H	GLN	A	31	-18.117	-5.399	-4.993	1.00	0.00
ATOM 427	HA	GLN	A	31	-19.643	-3.415	-6.312	1.00	0.00
ATOM 428	1HB	GLN	A	31	-21.013	-5.908	-5.497	1.00	0.00
ATOM 429	2HB	GLN	A	31	-21.817	-4.407	-5.058	1.00	0.00
ATOM 430	1HG	GLN	A	31	-20.952	-4.218	-7.761	1.00	0.00
ATOM 431	2HG	GLN	A	31	-21.816	-5.740	-7.544	1.00	0.00
ATOM 432	1HE2	GLN	A	31	-23.401	-4.801	-8.970	1.00	0.00

ATOM 433	2HE2	GLN	A	31	-24.595	-3.727	-8.334	1.00	0.00
ATOM 434	N	PRO	A	32	-19.291	-2.255	-4.103	1.00	0.00
ATOM 435	CA	PRO	A	32	-19.168	-1.542	-2.827	1.00	0.00
ATOM 436	C	PRO	A	32	-20.438	-1.628	-1.985	1.00	0.00
ATOM 437	O	PRO	A	32	-20.398	-1.450	-0.767	1.00	0.00
ATOM 438	CB	PRO	A	32	-18.901	-0.094	-3.247	1.00	0.00
ATOM 439	CG	PRO	A	32	-18.310	-0.196	-4.610	1.00	0.00
ATOM 440	CD	PRO	A	32	-18.958	-1.390	-5.252	1.00	0.00
ATOM 441	HA	PRO	A	32	-18.334	-1.910	-2.250	1.00	0.00
ATOM 442	1HB	PRO	A	32	-19.831	0.457	-3.259	1.00	0.00
ATOM 443	2HB	PRO	A	32	-18.212	0.364	-2.553	1.00	0.00
ATOM 444	1HG	PRO	A	32	-18.531	0.698	-5.174	1.00	0.00
ATOM 445	2HG	PRO	A	32	-17.243	-0.343	-4.539	1.00	0.00
ATOM 446	1HD	PRO	A	32	-19.852	-1.096	-5.783	1.00	0.00
ATOM 447	2HD	PRO	A	32	-18.266	-1.885	-5.918	1.00	0.00
ATOM 448	N	SER	A	33	-21.565	-1.899	-2.638	1.00	0.00
ATOM 449	CA	SER	A	33	-22.845	-2.007	-1.944	1.00	0.00
ATOM 450	C	SER	A	33	-22.780	-3.053	-0.835	1.00	0.00
ATOM 451	O	SER	A	33	-23.416	-2.906	0.209	1.00	0.00
ATOM 452	CB	SER	A	33	-23.955	-2.365	-2.934	1.00	0.00
ATOM 453	OG	SER	A	33	-25.221	-1.950	-2.451	1.00	0.00
ATOM 454	H	SER	A	33	-21.536	-2.030	-3.608	1.00	0.00
ATOM 455	HA	SER	A	33	-23.063	-1.047	-1.504	1.00	0.00
ATOM 456	1HB	SER	A	33	-23.766	-1.876	-3.877	1.00	0.00
ATOM 457	2HB	SER	A	33	-23.973	-3.435	-3.080	1.00	0.00
ATOM 458	HG	SER	A	33	-25.912	-2.444	-2.898	1.00	0.00
ATOM 459	N	THR	A	34	-22.008	-4.112	-1.067	1.00	0.00

ATOM 460	CA	THR A	34	-21.863	-5.181	-0.086	1.00	0.00
ATOM 461	C	THR A	34	-20.928	-4.760	1.044	1.00	0.00
ATOM 462	O	THR A	34	-20.196	-3.778	0.924	1.00	0.00
ATOM 463	CB	THR A	34	-21.334	-6.449	-0.756	1.00	0.00
ATOM 464	OG1	THR A	34	-19.972	-6.297	-1.114	1.00	0.00
ATOM 465	CG2	THR A	34	-22.098	-6.829	-2.007	1.00	0.00
ATOM 466	H	THR A	34	-21.526	-4.174	-1.917	1.00	0.00
ATOM 467	HA	THR A	34	-22.840	-5.384	0.329	1.00	0.00
ATOM 468	HB	THR A	34	-21.412	-7.272	-0.059	1.00	0.00
ATOM 469	HG1	THR A	34	-19.867	-5.502	-1.641	1.00	0.00
ATOM 470	1HG2	THR A	34	-23.092	-6.409	-1.963	1.00	0.00
ATOM 471	2HG2	THR A	34	-22.164	-7.905	-2.075	1.00	0.00
ATOM 472	3HG2	THR A	34	-21.582	-6.445	-2.874	1.00	0.00
ATOM 473	N	THR A	35	-20.958	-5.511	2.141	1.00	0.00
ATOM 474	CA	THR A	35	-20.113	-5.215	3.293	1.00	0.00
ATOM 475	C	THR A	35	-18.713	-5.793	3.106	1.00	0.00
ATOM 476	O	THR A	35	-17.736	-5.254	3.626	1.00	0.00
ATOM 477	CB	THR A	35	-20.743	-5.773	4.570	1.00	0.00
ATOM 478	OG1	THR A	35	-22.128	-5.480	4.616	1.00	0.00
ATOM 479	CG2	THR A	35	-20.116	-5.226	5.834	1.00	0.00
ATOM 480	H	THR A	35	-21.564	-6.280	2.177	1.00	0.00
ATOM 481	HA	THR A	35	-20.037	-4.142	3.380	1.00	0.00
ATOM 482	HB	THR A	35	-20.623	-6.847	4.578	1.00	0.00
ATOM 483	HG1	THR A	35	-22.627	-6.239	4.305	1.00	0.00
ATOM 484	1HG2	THR A	35	-19.332	-5.893	6.164	1.00	0.00
ATOM 485	2HG2	THR A	35	-20.869	-5.147	6.604	1.00	0.00
ATOM 486	3HG2	THR A	35	-19.699	-4.250	5.636	1.00	0.00

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ATOM 487	N	LYS A	36	-18.622	-6.892	2.362	1.00	0.00
ATOM 488	CA	LYS A	36	-17.340	-7.540	2.110	1.00	0.00
ATOM 489	C	LYS A	36	-16.365	-6.577	1.439	1.00	0.00
ATOM 490	O	LYS A	36	-15.152	-6.680	1.621	1.00	0.00
ATOM 491	CB	LYS A	36	-17.534	-8.780	1.237	1.00	0.00
ATOM 492	CG	LYS A	36	-16.608	-9.930	1.600	1.00	0.00
ATOM 493	CD	LYS A	36	-16.525	-10.956	0.481	1.00	0.00
ATOM 494	CE	LYS A	36	-15.135	-11.563	0.385	1.00	0.00
ATOM 495	NZ	LYS A	36	-14.796	-12.368	1.591	1.00	0.00
ATOM 496	H	LYS A	36	-19.436	-7.275	1.974	1.00	0.00
ATOM 497	HA	LYS A	36	-16.930	-7.842	3.061	1.00	0.00
ATOM 498	1HB	LYS A	36	-18.554	-9.122	1.338	1.00	0.00
ATOM 499	2HB	LYS A	36	-17.354	-8.514	0.206	1.00	0.00
ATOM 500	1HG	LYS A	36	-15.620	-9.538	1.788	1.00	0.00
ATOM 501	2HG	LYS A	36	-16.982	-10.412	2.491	1.00	0.00
ATOM 502	1HD	LYS A	36	-17.239	-11.742	0.673	1.00	0.00
ATOM 503	2HD	LYS A	36	-16.763	-10.471	-0.456	1.00	0.00
ATOM 504	1HE	LYS A	36	-15.094	-12.202	-0.485	1.00	0.00
ATOM 505	2HE	LYS A	36	-14.414	-10.766	0.279	1.00	0.00
ATOM 506	1HZ	LYS A	36	-14.985	-13.375	1.415	1.00	0.00
ATOM 507	2HZ	LYS A	36	-15.368	-12.056	2.401	1.00	0.00
ATOM 508	3HZ	LYS A	36	-13.789	-12.251	1.827	1.00	0.00
ATOM 509	N	TYR A	37	-16.903	-5.643	0.663	1.00	0.00
ATOM 510	CA	TYR A	37	-16.080	-4.662	-0.034	1.00	0.00
ATOM 511	C	TYR A	37	-15.500	-3.644	0.944	1.00	0.00
ATOM 512	O	TYR A	37	-14.287	-3.454	1.010	1.00	0.00
ATOM 513	CB	TYR A	37	-16.902	-3.945	-1.107	1.00	0.00



ATOM 514	CG	TYR A	37	-16.092	-2.991	-1.956	1.00	0.00
ATOM 515	CD1	TYR A	37	-15.459	-3.427	-3.114	1.00	0.00
ATOM 516	CD2	TYR A	37	-15.959	-1.655	-1.600	1.00	0.00
ATOM 517	CE1	TYR A	37	-14.718	-2.559	-3.892	1.00	0.00
ATOM 518	CE2	TYR A	37	-15.220	-0.780	-2.374	1.00	0.00
ATOM 519	CZ	TYR A	37	-14.602	-1.236	-3.519	1.00	0.00
ATOM 520	OH	TYR A	37	-13.866	-0.369	-4.292	1.00	0.00
ATOM 521	H	TYR A	37	-17.877	-5.610	0.557	1.00	0.00
ATOM 522	HA	TYR A	37	-15.266	-5.190	-0.510	1.00	0.00
ATOM 523	1HB	TYR A	37	-17.342	-4.680	-1.763	1.00	0.00
ATOM 524	2HB	TYR A	37	-17.688	-3.379	-0.629	1.00	0.00
ATOM 525	HD1	TYR A	37	-15.553	-4.463	-3.404	1.00	0.00
ATOM 526	HD2	TYR A	37	-16.443	-1.300	-0.702	1.00	0.00
ATOM 527	HE1	TYR A	37	-14.235	-2.917	-4.789	1.00	0.00
ATOM 528	HE2	TYR A	37	-15.130	0.255	-2.080	1.00	0.00
ATOM 529	HH	TYR A	37	-14.399	0.400	-4.506	1.00	0.00
ATOM 530	N	GLN A	38	-16.378	-2.994	1.702	1.00	0.00
ATOM 531	CA	GLN A	38	-15.954	-1.997	2.678	1.00	0.00
ATOM 532	C	GLN A	38	-15.060	-2.623	3.743	1.00	0.00
ATOM 533	O	GLN A	38	-14.086	-2.015	4.188	1.00	0.00
ATOM 534	CB	GLN A	38	-17.172	-1.348	3.337	1.00	0.00
ATOM 535	CG	GLN A	38	-17.857	-0.311	2.461	1.00	0.00
ATOM 536	CD	GLN A	38	-19.274	-0.014	2.911	1.00	0.00
ATOM 537	OE1	GLN A	38	-19.583	-0.065	4.102	1.00	0.00
ATOM 538	NE2	GLN A	38	-20.144	0.300	1.958	1.00	0.00
ATOM 539	H	GLN A	38	-17.332	-3.191	1.604	1.00	0.00
ATOM 540	HA	GLN A	38	-15.392	-1.239	2.154	1.00	0.00

ATOM 541	1HB	GLN	A	38	-17.891	-2.117	3.576	1.00	0.00
ATOM 542	2HB	GLN	A	38	-16.857	-0.865	4.250	1.00	0.00
ATOM 543	1HG	GLN	A	38	-17.286	0.604	2.494	1.00	0.00
ATOM 544	2HG	GLN	A	38	-17.886	-0.679	1.446	1.00	0.00
ATOM 545	1HE2	GLN	A	38	-19.827	0.322	1.031	1.00	0.00
ATOM 546	2HE2	GLN	A	38	-21.068	0.498	2.221	1.00	0.00
ATOM 547	N	GLN	A	39	-15.397	-3.844	4.148	1.00	0.00
ATOM 548	CA	GLN	A	39	-14.624	-4.553	5.161	1.00	0.00
ATOM 549	C	GLN	A	39	-13.182	-4.753	4.706	1.00	0.00
ATOM 550	O	GLN	A	39	-12.244	-4.321	5.376	1.00	0.00
ATOM 551	CB	GLN	A	39	-15.267	-5.907	5.468	1.00	0.00
ATOM 552	CG	GLN	A	39	-16.287	-5.856	6.594	1.00	0.00
ATOM 553	CD	GLN	A	39	-16.465	-7.195	7.280	1.00	0.00
ATOM 554	OE1	GLN	A	39	-16.675	-8.218	6.628	1.00	0.00
ATOM 555	NE2	GLN	A	39	-16.382	-7.197	8.607	1.00	0.00
ATOM 556	H	GLN	A	39	-16.183	-4.278	3.756	1.00	0.00
ATOM 557	HA	GLN	A	39	-14.625	-3.953	6.059	1.00	0.00
ATOM 558	1HB	GLN	A	39	-15.764	-6.266	4.578	1.00	0.00
ATOM 559	2HB	GLN	A	39	-14.492	-6.607	5.744	1.00	0.00
ATOM 560	1HG	GLN	A	39	-15.959	-5.134	7.327	1.00	0.00
ATOM 561	2HG	GLN	A	39	-17.238	-5.546	6.187	1.00	0.00
ATOM 562	1HE2	GLN	A	39	-16.213	-6.345	9.060	1.00	0.00
ATOM 563	2HE2	GLN	A	39	-16.493	-8.049	9.076	1.00	0.00
ATOM 564	N	THR	A	40	-13.013	-5.407	3.561	1.00	0.00
ATOM 565	CA	THR	A	40	-11.684	-5.663	3.017	1.00	0.00
ATOM 566	C	THR	A	40	-10.990	-4.356	2.649	1.00	0.00
ATOM 567	O	THR	A	40	-9.785	-4.203	2.852	1.00	0.00

ATOM 568	CB	THR A	40	-11.780	-6.568	1.787	1.00	0.00
ATOM 569	OG1	THR A	40	-12.420	-7.789	2.112	1.00	0.00
ATOM 570	CG2	THR A	40	-10.433	-6.903	1.183	1.00	0.00
ATOM 571	H	THR A	40	-13.800	-5.727	3.073	1.00	0.00
ATOM 572	HA	THR A	40	-11.105	-6.164	3.777	1.00	0.00
ATOM 573	HB	THR A	40	-12.367	-6.068	1.030	1.00	0.00
ATOM 574	HG1	THR A	40	-13.247	-7.856	1.628	1.00	0.00
ATOM 575	1HG2	THR A	40	-10.568	-7.228	0.162	1.00	0.00
ATOM 576	2HG2	THR A	40	-9.969	-7.693	1.755	1.00	0.00
ATOM 577	3HG2	THR A	40	-9.803	-6.025	1.201	1.00	0.00
ATOM 578	N	LYS A	41	-11.756	-3.417	2.106	1.00	0.00
ATOM 579	CA	LYS A	41	-11.216	-2.122	1.709	1.00	0.00
ATOM 580	C	LYS A	41	-10.623	-1.389	2.909	1.00	0.00
ATOM 581	O	LYS A	41	-9.610	-0.700	2.790	1.00	0.00
ATOM 582	CB	LYS A	41	-12.307	-1.267	1.062	1.00	0.00
ATOM 583	CG	LYS A	41	-11.772	-0.035	0.351	1.00	0.00
ATOM 584	CD	LYS A	41	-12.842	0.622	-0.509	1.00	0.00
ATOM 585	CE	LYS A	41	-13.256	1.974	0.049	1.00	0.00
ATOM 586	NZ	LYS A	41	-14.072	2.751	-0.925	1.00	0.00
ATOM 587	H	LYS A	41	-12.710	-3.598	1.970	1.00	0.00
ATOM 588	HA	LYS A	41	-10.432	-2.297	0.987	1.00	0.00
ATOM 589	1HB	LYS A	41	-12.841	-1.870	0.343	1.00	0.00
ATOM 590	2HB	LYS A	41	-12.996	-0.943	1.829	1.00	0.00
ATOM 591	1HG	LYS A	41	-11.431	0.676	1.088	1.00	0.00
ATOM 592	2HG	LYS A	41	-10.945	-0.326	-0.280	1.00	0.00
ATOM 593	1HD	LYS A	41	-12.454	0.760	-1.506	1.00	0.00
ATOM 594	2HD	LYS A	41	-13.708	-0.023	-0.544	1.00	0.00

ATOM 595	1HE	LYS	A	41	-13.837	1.817	0.946	1.00	0.00
ATOM 596	2HE	LYS	A	41	-12.367	2.537	0.291	1.00	0.00
ATOM 597	1HZ	LYS	A	41	-14.555	2.105	-1.582	1.00	0.00
ATOM 598	2HZ	LYS	A	41	-13.462	3.391	-1.473	1.00	0.00
ATOM 599	3HZ	LYS	A	41	-14.786	3.317	-0.423	1.00	0.00
ATOM 600	N	ARG	A	42	-11.263	-1.542	4.064	1.00	0.00
ATOM 601	CA	ARG	A	42	-10.800	-0.894	5.285	1.00	0.00
ATOM 602	C	ARG	A	42	-9.522	-1.550	5.800	1.00	0.00
ATOM 603	O	ARG	A	42	-8.608	-0.871	6.267	1.00	0.00
ATOM 604	CB	ARG	A	42	-11.887	-0.950	6.361	1.00	0.00
ATOM 605	CG	ARG	A	42	-12.037	0.346	7.141	1.00	0.00
ATOM 606	CD	ARG	A	42	-12.596	1.459	6.269	1.00	0.00
ATOM 607	NE	ARG	A	42	-12.068	2.768	6.646	1.00	0.00
ATOM 608	CZ	ARG	A	42	-12.513	3.476	7.683	1.00	0.00
ATOM 609	NH1	ARG	A	42	-13.491	3.005	8.446	1.00	0.00
ATOM 610	NH2	ARG	A	42	-11.977	4.657	7.956	1.00	0.00
ATOM 611	H	ARG	A	42	-12.065	-2.103	4.096	1.00	0.00
ATOM 612	HA	ARG	A	42	-10.590	0.139	5.053	1.00	0.00
ATOM 613	1HB	ARG	A	42	-12.833	-1.171	5.888	1.00	0.00
ATOM 614	2HB	ARG	A	42	-11.649	-1.739	7.058	1.00	0.00
ATOM 615	1HG	ARG	A	42	-12.708	0.181	7.970	1.00	0.00
ATOM 616	2HG	ARG	A	42	-11.068	0.644	7.513	1.00	0.00
ATOM 617	1HD	ARG	A	42	-12.333	1.259	5.241	1.00	0.00
ATOM 618	2HD	ARG	A	42	-13.671	1.471	6.369	1.00	0.00
ATOM 619	HE	ARG	A	42	-11.345	3.140	6.099	1.00	0.00
ATOM 620	1HH1	ARG	A	42	-13.899	2.115	8.246	1.00	0.00
ATOM 621	2HH1	ARG	A	42	-13.820	3.543	9.223	1.00	0.00

ATOM 622	1HH2	ARG	A	42	-11.239	5.017	7.383	1.00	0.00
ATOM 623	2HH2	ARG	A	42	-12.312	5.190	8.734	1.00	0.00
ATOM 624	N	SER	A	43	-9.468	-2.875	5.713	1.00	0.00
ATOM 625	CA	SER	A	43	-8.302	-3.624	6.170	1.00	0.00
ATOM 626	C	SER	A	43	-7.055	-3.220	5.390	1.00	0.00
ATOM 627	O	SER	A	43	-5.995	-2.989	5.971	1.00	0.00
ATOM 628	CB	SER	A	43	-8.546	-5.127	6.024	1.00	0.00
ATOM 629	OG	SER	A	43	-8.008	-5.840	7.123	1.00	0.00
ATOM 630	H	SER	A	43	-10.228	-3.361	5.332	1.00	0.00
ATOM 631	HA	SER	A	43	-8.150	-3.393	7.213	1.00	0.00
ATOM 632	1HB	SER	A	43	-9.608	-5.314	5.975	1.00	0.00
ATOM 633	2HB	SER	A	43	-8.077	-5.479	5.116	1.00	0.00
ATOM 634	HG	SER	A	43	-8.680	-5.939	7.801	1.00	0.00
ATOM 635	N	ILE	A	44	-7.190	-3.135	4.070	1.00	0.00
ATOM 636	CA	ILE	A	44	-6.073	-2.759	3.211	1.00	0.00
ATOM 637	C	ILE	A	44	-5.667	-1.308	3.450	1.00	0.00
ATOM 638	O	ILE	A	44	-4.481	-0.983	3.487	1.00	0.00
ATOM 639	CB	ILE	A	44	-6.420	-2.947	1.721	1.00	0.00
ATOM 640	CG1	ILE	A	44	-6.946	-4.361	1.470	1.00	0.00
ATOM 641	CG2	ILE	A	44	-5.200	-2.670	0.852	1.00	0.00
ATOM 642	CD1	ILE	A	44	-7.827	-4.468	0.245	1.00	0.00
ATOM 643	H	ILE	A	44	-8.060	-3.331	3.665	1.00	0.00
ATOM 644	HA	ILE	A	44	-5.238	-3.400	3.450	1.00	0.00
ATOM 645	HB	ILE	A	44	-7.186	-2.233	1.459	1.00	0.00
ATOM 646	1HG1	ILE	A	44	-6.110	-5.031	1.337	1.00	0.00
ATOM 647	2HG1	ILE	A	44	-7.525	-4.680	2.325	1.00	0.00
ATOM 648	1HG2	ILE	A	44	-4.762	-1.725	1.138	1.00	0.00

ATOM 649	2HG2	ILE	A	44	-5.499	-2.631	-0.184	1.00	0.00
ATOM 650	3HG2	ILE	A	44	-4.475	-3.459	0.989	1.00	0.00
ATOM 651	1HD1	ILE	A	44	-7.258	-4.199	-0.633	1.00	0.00
ATOM 652	2HD1	ILE	A	44	-8.669	-3.801	0.347	1.00	0.00
ATOM 653	3HD1	ILE	A	44	-8.183	-5.484	0.145	1.00	0.00
ATOM 654	N	GLU	A	45	-6.662	-0.441	3.612	1.00	0.00
ATOM 655	CA	GLU	A	45	-6.409	0.975	3.848	1.00	0.00
ATOM 656	C	GLU	A	45	-5.737	1.187	5.202	1.00	0.00
ATOM 657	O	GLU	A	45	-4.960	2.125	5.381	1.00	0.00
ATOM 658	CB	GLU	A	45	-7.719	1.764	3.785	1.00	0.00
ATOM 659	CG	GLU	A	45	-7.919	2.506	2.474	1.00	0.00
ATOM 660	CD	GLU	A	45	-7.177	3.827	2.433	1.00	0.00
ATOM 661	OE1	GLU	A	45	-7.769	4.827	1.976	1.00	0.00
ATOM 662	OE2	GLU	A	45	-6.003	3.862	2.861	1.00	0.00
ATOM 663	H	GLU	A	45	-7.587	-0.761	3.573	1.00	0.00
ATOM 664	HA	GLU	A	45	-5.748	1.328	3.071	1.00	0.00
ATOM 665	1HB	GLU	A	45	-8.544	1.079	3.915	1.00	0.00
ATOM 666	2HB	GLU	A	45	-7.733	2.485	4.588	1.00	0.00
ATOM 667	1HG	GLU	A	45	-7.562	1.886	1.665	1.00	0.00
ATOM 668	2HG	GLU	A	45	-8.974	2.697	2.340	1.00	0.00
ATOM 669	N	ASN	A	46	-6.041	0.308	6.152	1.00	0.00
ATOM 670	CA	ASN	A	46	-5.468	0.397	7.490	1.00	0.00
ATOM 671	C	ASN	A	46	-4.017	-0.077	7.495	1.00	0.00
ATOM 672	O	ASN	A	46	-3.140	0.581	8.055	1.00	0.00
ATOM 673	CB	ASN	A	46	-6.292	-0.436	8.474	1.00	0.00
ATOM 674	CG	ASN	A	46	-6.491	0.268	9.802	1.00	0.00
ATOM 675	OD1	ASN	A	46	-5.736	1.172	10.158	1.00	0.00

ATOM 676	ND2	ASN	A	46	-7.512	-0.145	10.543	1.00	0.00
ATOM 677	H	ASN	A	46	-6.667	-0.418	5.948	1.00	0.00
ATOM 678	HA	ASN	A	46	-5.497	1.432	7.795	1.00	0.00
ATOM 679	1HB	ASN	A	46	-7.263	-0.632	8.044	1.00	0.00
ATOM 680	2HB	ASN	A	46	-5.787	-1.372	8.656	1.00	0.00
ATOM 681	1HD2	ASN	A	46	-8.072	-0.871	10.196	1.00	0.00
ATOM 682	2HD2	ASN	A	46	-7.665	0.292	11.406	1.00	0.00
ATOM 683	N	ALA	A	47	-3.773	-1.223	6.869	1.00	0.00
ATOM 684	CA	ALA	A	47	-2.430	-1.788	6.803	1.00	0.00
ATOM 685	C	ALA	A	47	-1.475	-0.853	6.067	1.00	0.00
ATOM 686	O	ALA	A	47	-0.334	-0.660	6.486	1.00	0.00
ATOM 687	CB	ALA	A	47	-2.466	-3.152	6.128	1.00	0.00
ATOM 688	H	ALA	A	47	-4.514	-1.703	6.443	1.00	0.00
ATOM 689	HA	ALA	A	47	-2.076	-1.923	7.815	1.00	0.00
ATOM 690	1HB	ALA	A	47	-1.683	-3.210	5.386	1.00	0.00
ATOM 691	2HB	ALA	A	47	-3.425	-3.292	5.651	1.00	0.00
ATOM 692	3HB	ALA	A	47	-2.318	-3.923	6.869	1.00	0.00
ATOM 693	N	LEU	A	48	-1.947	-0.277	4.967	1.00	0.00
ATOM 694	CA	LEU	A	48	-1.132	0.635	4.174	1.00	0.00
ATOM 695	C	LEU	A	48	-0.862	1.930	4.934	1.00	0.00
ATOM 696	O	LEU	A	48	0.196	2.539	4.786	1.00	0.00
ATOM 697	CB	LEU	A	48	-1.823	0.945	2.844	1.00	0.00
ATOM 698	CG	LEU	A	48	-1.924	-0.234	1.876	1.00	0.00
ATOM 699	CD1	LEU	A	48	-2.711	0.160	0.635	1.00	0.00
ATOM 700	CD2	LEU	A	48	-0.537	-0.730	1.494	1.00	0.00
ATOM 701	H	LEU	A	48	-2.865	-0.471	4.682	1.00	0.00
ATOM 702	HA	LEU	A	48	-0.189	0.148	3.973	1.00	0.00

ATOM 703	1HB	LEU	A	48	-2.821	1.299	3.055	1.00	0.00
ATOM 704	2HB	LEU	A	48	-1.275	1.736	2.355	1.00	0.00
ATOM 705	HG	LEU	A	48	-2.448	-1.046	2.360	1.00	0.00
ATOM 706	1HD1	LEU	A	48	-3.482	0.865	0.908	1.00	0.00
ATOM 707	2HD1	LEU	A	48	-3.164	-0.719	0.202	1.00	0.00
ATOM 708	3HD1	LEU	A	48	-2.046	0.614	-0.084	1.00	0.00
ATOM 709	1HD2	LEU	A	48	0.105	0.116	1.298	1.00	0.00
ATOM 710	2HD2	LEU	A	48	-0.605	-1.343	0.607	1.00	0.00
ATOM 711	3HD2	LEU	A	48	-0.127	-1.313	2.305	1.00	0.00
ATOM 712	N	ASN	A	49	-1.828	2.346	5.749	1.00	0.00
ATOM 713	CA	ASN	A	49	-1.696	3.569	6.533	1.00	0.00
ATOM 714	C	ASN	A	49	-0.439	3.532	7.399	1.00	0.00
ATOM 715	O	ASN	A	49	0.481	4.328	7.210	1.00	0.00
ATOM 716	CB	ASN	A	49	-2.933	3.769	7.413	1.00	0.00
ATOM 717	CG	ASN	A	49	-3.646	5.076	7.118	1.00	0.00
ATOM 718	OD1	ASN	A	49	-3.265	6.131	7.624	1.00	0.00
ATOM 719	ND2	ASN	A	49	-4.686	5.009	6.296	1.00	0.00
ATOM 720	H	ASN	A	49	-2.650	1.816	5.823	1.00	0.00
ATOM 721	HA	ASN	A	49	-1.618	4.396	5.844	1.00	0.00
ATOM 722	1HB	ASN	A	49	-3.624	2.959	7.240	1.00	0.00
ATOM 723	2HB	ASN	A	49	-2.635	3.768	8.451	1.00	0.00
ATOM 724	1HD2	ASN	A	49	-4.933	4.134	5.931	1.00	0.00
ATOM 725	2HD2	ASN	A	49	-5.166	5.839	6.089	1.00	0.00
ATOM 726	N	GLN	A	50	-0.406	2.601	8.348	1.00	0.00
ATOM 727	CA	GLN	A	50	0.738	2.460	9.241	1.00	0.00
ATOM 728	C	GLN	A	50	2.022	2.226	8.450	1.00	0.00
ATOM 729	O	GLN	A	50	3.114	2.568	8.904	1.00	0.00



ATOM 730	CB	GLN A	50	0.509	1.307	10.221	1.00	0.00
ATOM 731	CG	GLN A	50	0.429	-0.055	9.552	1.00	0.00
ATOM 732	CD	GLN A	50	-0.720	-0.895	10.072	1.00	0.00
ATOM 733	OE1	GLN A	50	-1.836	-0.404	10.242	1.00	0.00
ATOM 734	NE2	GLN A	50	-0.453	-2.170	10.329	1.00	0.00
ATOM 735	H	GLN A	50	-1.169	1.994	8.449	1.00	0.00
ATOM 736	HA	GLN A	50	0.838	3.379	9.798	1.00	0.00
ATOM 737	1HB	GLN A	50	1.321	1.288	10.933	1.00	0.00
ATOM 738	2HB	GLN A	50	-0.417	1.479	10.749	1.00	0.00
ATOM 739	1HG	GLN A	50	0.299	0.087	8.489	1.00	0.00
ATOM 740	2HG	GLN A	50	1.354	-0.585	9.732	1.00	0.00
ATOM 741	1HE2	GLN A	50	0.458	-2.494	10.171	1.00	0.00
ATOM 742	2HE2	GLN A	50	-1.180	-2.736	10.667	1.00	0.00
ATOM 743	N	LEU A	51	1.884	1.642	7.263	1.00	0.00
ATOM 744	CA	LEU A	51	3.034	1.365	6.408	1.00	0.00
ATOM 745	C	LEU A	51	3.782	2.651	6.074	1.00	0.00
ATOM 746	O	LEU A	51	5.009	2.660	5.979	1.00	0.00
ATOM 747	CB	LEU A	51	2.584	0.670	5.121	1.00	0.00
ATOM 748	CG	LEU A	51	3.702	-0.003	4.323	1.00	0.00
ATOM 749	CD1	LEU A	51	3.166	-1.207	3.563	1.00	0.00
ATOM 750	CD2	LEU A	51	4.342	0.990	3.365	1.00	0.00
ATOM 751	H	LEU A	51	0.988	1.392	6.953	1.00	0.00
ATOM 752	HA	LEU A	51	3.696	0.707	6.949	1.00	0.00
ATOM 753	1HB	LEU A	51	1.851	-0.082	5.381	1.00	0.00
ATOM 754	2HB	LEU A	51	2.110	1.404	4.487	1.00	0.00
ATOM 755	HG	LEU A	51	4.463	-0.351	5.004	1.00	0.00
ATOM 756	1HD1	LEU A	51	2.810	-1.946	4.266	1.00	0.00

ATOM 757	2HD1	LEU	A	51	3.954	-1.634	2.962	1.00	0.00
ATOM 758	3HD1	LEU	A	51	2.352	-0.897	2.924	1.00	0.00
ATOM 759	1HD2	LEU	A	51	3.598	1.353	2.672	1.00	0.00
ATOM 760	2HD2	LEU	A	51	5.136	0.502	2.818	1.00	0.00
ATOM 761	3HD2	LEU	A	51	4.749	1.820	3.924	1.00	0.00
ATOM 762	N	PHE	A	52	3.035	3.737	5.897	1.00	0.00
ATOM 763	CA	PHE	A	52	3.631	5.030	5.574	1.00	0.00
ATOM 764	C	PHE	A	52	4.317	5.629	6.796	1.00	0.00
ATOM 765	O	PHE	A	52	5.452	6.099	6.715	1.00	0.00
ATOM 766	CB	PHE	A	52	2.565	5.999	5.052	1.00	0.00
ATOM 767	CG	PHE	A	52	1.514	5.345	4.200	1.00	0.00
ATOM 768	CD1	PHE	A	52	1.863	4.408	3.241	1.00	0.00
ATOM 769	CD2	PHE	A	52	0.175	5.667	4.363	1.00	0.00
ATOM 770	CE1	PHE	A	52	0.897	3.805	2.459	1.00	0.00
ATOM 771	CE2	PHE	A	52	-0.795	5.066	3.583	1.00	0.00
ATOM 772	CZ	PHE	A	52	-0.433	4.134	2.630	1.00	0.00
ATOM 773	H	PHE	A	52	2.062	3.668	5.987	1.00	0.00
ATOM 774	HA	PHE	A	52	4.369	4.871	4.803	1.00	0.00
ATOM 775	1HB	PHE	A	52	2.069	6.464	5.891	1.00	0.00
ATOM 776	2HB	PHE	A	52	3.046	6.763	4.457	1.00	0.00
ATOM 777	HD1	PHE	A	52	2.903	4.150	3.107	1.00	0.00
ATOM 778	HD2	PHE	A	52	-0.108	6.395	5.107	1.00	0.00
ATOM 779	HE1	PHE	A	52	1.182	3.077	1.714	1.00	0.00
ATOM 780	HE2	PHE	A	52	-1.834	5.326	3.719	1.00	0.00
ATOM 781	HZ	PHE	A	52	-1.188	3.664	2.020	1.00	0.00
ATOM 782	N	ARG	A	53	3.620	5.610	7.928	1.00	0.00
ATOM 783	CA	ARG	A	53	4.161	6.151	9.171	1.00	0.00

ATOM 784	C	ARG A	53	5.502	5.508	9.512	1.00	0.00
ATOM 785	O	ARG A	53	6.332	6.105	10.198	1.00	0.00
ATOM 786	CB	ARG A	53	3.172	5.932	10.318	1.00	0.00
ATOM 787	CG	ARG A	53	2.198	7.082	10.511	1.00	0.00
ATOM 788	CD	ARG A	53	1.664	7.127	11.933	1.00	0.00
ATOM 789	NE	ARG A	53	1.595	8.493	12.448	1.00	0.00
ATOM 790	CZ	ARG A	53	2.662	9.210	12.792	1.00	0.00
ATOM 791	NH1	ARG A	53	3.881	8.696	12.679	1.00	0.00
ATOM 792	NH2	ARG A	53	2.511	10.445	13.251	1.00	0.00
ATOM 793	H	ARG A	53	2.719	5.221	7.928	1.00	0.00
ATOM 794	HA	ARG A	53	4.308	7.212	9.033	1.00	0.00
ATOM 795	1HB	ARG A	53	2.603	5.035	10.120	1.00	0.00
ATOM 796	2HB	ARG A	53	3.726	5.800	11.236	1.00	0.00
ATOM 797	1HG	ARG A	53	2.705	8.011	10.297	1.00	0.00
ATOM 798	2HG	ARG A	53	1.370	6.957	9.828	1.00	0.00
ATOM 799	1HD	ARG A	53	0.673	6.698	11.947	1.00	0.00
ATOM 800	2HD	ARG A	53	2.316	6.546	12.568	1.00	0.00
ATOM 801	HE	ARG A	53	0.707	8.897	12.542	1.00	0.00
ATOM 802	1HH1	ARG A	53	4.002	7.766	12.333	1.00	0.00
ATOM 803	2HH1	ARG A	53	4.678	9.240	12.938	1.00	0.00
ATOM 804	1HH2	ARG A	53	1.594	10.837	13.339	1.00	0.00
ATOM 805	2HH2	ARG A	53	3.312	10.984	13.510	1.00	0.00
ATOM 806	N	ASN A	54	5.708	4.285	9.030	1.00	0.00
ATOM 807	CA	ASN A	54	6.947	3.560	9.286	1.00	0.00
ATOM 808	C	ASN A	54	7.852	3.554	8.055	1.00	0.00
ATOM 809	O	ASN A	54	9.043	3.259	8.154	1.00	0.00
ATOM 810	CB	ASN A	54	6.640	2.124	9.713	1.00	0.00

ATOM 811	CG	ASN A	54	5.641	2.062	10.852	1.00	0.00
ATOM 812	OD1	ASN A	54	5.707	2.852	11.795	1.00	0.00
ATOM 813	ND2	ASN A	54	4.708	1.121	10.771	1.00	0.00
ATOM 814	H	ASN A	54	5.009	3.860	8.492	1.00	0.00
ATOM 815	HA	ASN A	54	7.463	4.061	10.092	1.00	0.00
ATOM 816	1HB	ASN A	54	6.231	1.584	8.871	1.00	0.00
ATOM 817	2HB	ASN A	54	7.554	1.646	10.033	1.00	0.00
ATOM 818	1HD2	ASN A	54	4.716	0.527	9.991	1.00	0.00
ATOM 819	2HD2	ASN A	54	4.049	1.059	11.494	1.00	0.00
ATOM 820	N	SER A	55	7.284	3.878	6.895	1.00	0.00
ATOM 821	CA	SER A	55	8.044	3.906	5.650	1.00	0.00
ATOM 822	C	SER A	55	9.277	4.798	5.777	1.00	0.00
ATOM 823	O	SER A	55	9.333	5.677	6.638	1.00	0.00
ATOM 824	CB	SER A	55	7.161	4.399	4.502	1.00	0.00
ATOM 825	OG	SER A	55	6.959	5.799	4.579	1.00	0.00
ATOM 826	H	SER A	55	6.330	4.102	6.876	1.00	0.00
ATOM 827	HA	SER A	55	8.366	2.898	5.437	1.00	0.00
ATOM 828	1HB	SER A	55	7.636	4.168	3.561	1.00	0.00
ATOM 829	2HB	SER A	55	6.202	3.906	4.551	1.00	0.00
ATOM 830	HG	SER A	55	6.020	5.985	4.638	1.00	0.00
ATOM 831	N	SER A	56	10.262	4.565	4.914	1.00	0.00
ATOM 832	CA	SER A	56	11.493	5.348	4.929	1.00	0.00
ATOM 833	C	SER A	56	11.216	6.808	4.588	1.00	0.00
ATOM 834	O	SER A	56	11.967	7.701	4.980	1.00	0.00
ATOM 835	CB	SER A	56	12.503	4.765	3.939	1.00	0.00
ATOM 836	OG	SER A	56	11.953	4.685	2.637	1.00	0.00
ATOM 837	H	SER A	56	10.157	3.851	4.252	1.00	0.00

ATOM 838	HA	SER A	56	11.906	5.295	5.925	1.00	0.00
ATOM 839	1HB	SER A	56	13.378	5.397	3.909	1.00	0.00
ATOM 840	2HB	SER A	56	12.787	3.773	4.259	1.00	0.00
ATOM 841	HG	SER A	56	11.485	5.498	2.435	1.00	0.00
ATOM 842	N	ILE A	57	10.131	7.045	3.856	1.00	0.00
ATOM 843	CA	ILE A	57	9.753	8.396	3.463	1.00	0.00
ATOM 844	C	ILE A	57	8.588	8.902	4.306	1.00	0.00
ATOM 845	O	ILE A	57	7.579	9.368	3.776	1.00	0.00
ATOM 846	CB	ILE A	57	9.367	8.462	1.972	1.00	0.00
ATOM 847	CG1	ILE A	57	8.327	7.388	1.643	1.00	0.00
ATOM 848	CG2	ILE A	57	10.601	8.299	1.098	1.00	0.00
ATOM 849	CD1	ILE A	57	7.630	7.607	0.318	1.00	0.00
ATOM 850	H	ILE A	57	9.571	6.294	3.575	1.00	0.00
ATOM 851	HA	ILE A	57	10.607	9.041	3.622	1.00	0.00
ATOM 852	HB	ILE A	57	8.943	9.435	1.776	1.00	0.00
ATOM 853	1HG1	ILE A	57	8.814	6.425	1.607	1.00	0.00
ATOM 854	2HG1	ILE A	57	7.574	7.377	2.418	1.00	0.00
ATOM 855	1HG2	ILE A	57	11.200	7.481	1.469	1.00	0.00
ATOM 856	2HG2	ILE A	57	11.181	9.210	1.121	1.00	0.00
ATOM 857	3HG2	ILE A	57	10.297	8.091	0.082	1.00	0.00
ATOM 858	1HD1	ILE A	57	6.852	8.345	0.438	1.00	0.00
ATOM 859	2HD1	ILE A	57	7.197	6.677	-0.018	1.00	0.00
ATOM 860	3HD1	ILE A	57	8.347	7.955	-0.412	1.00	0.00
ATOM 861	N	LYS A	58	8.733	8.804	5.623	1.00	0.00
ATOM 862	CA	LYS A	58	7.692	9.248	6.544	1.00	0.00
ATOM 863	C	LYS A	58	7.817	10.742	6.841	1.00	0.00
ATOM 864	O	LYS A	58	7.818	11.157	8.000	1.00	0.00

ATOM 865	CB	LYS	A	58	7.761	8.448	7.846	1.00	0.00
ATOM 866	CG	LYS	A	58	9.084	8.595	8.579	1.00	0.00
ATOM 867	CD	LYS	A	58	9.071	7.853	9.908	1.00	0.00
ATOM 868	CE	LYS	A	58	9.629	8.713	11.031	1.00	0.00
ATOM 869	NZ	LYS	A	58	11.051	9.087	10.791	1.00	0.00
ATOM 870	H	LYS	A	58	9.559	8.421	5.985	1.00	0.00
ATOM 871	HA	LYS	A	58	6.737	9.068	6.074	1.00	0.00
ATOM 872	1HB	LYS	A	58	6.971	8.783	8.503	1.00	0.00
ATOM 873	2HB	LYS	A	58	7.612	7.403	7.622	1.00	0.00
ATOM 874	1HG	LYS	A	58	9.873	8.191	7.963	1.00	0.00
ATOM 875	2HG	LYS	A	58	9.269	9.642	8.763	1.00	0.00
ATOM 876	1HD	LYS	A	58	8.054	7.582	10.148	1.00	0.00
ATOM 877	2HD	LYS	A	58	9.672	6.961	9.817	1.00	0.00
ATOM 878	1HE	LYS	A	58	9.038	9.613	11.109	1.00	0.00
ATOM 879	2HE	LYS	A	58	9.564	8.159	11.957	1.00	0.00
ATOM 880	1HZ	LYS	A	58	11.682	8.439	11.304	1.00	0.00
ATOM 881	2HZ	LYS	A	58	11.225	10.057	11.122	1.00	0.00
ATOM 882	3HZ	LYS	A	58	11.267	9.035	9.775	1.00	0.00
ATOM 883	N	SER	A	59	7.920	11.545	5.787	1.00	0.00
ATOM 884	CA	SER	A	59	8.041	12.991	5.937	1.00	0.00
ATOM 885	C	SER	A	59	7.355	13.722	4.785	1.00	0.00
ATOM 886	O	SER	A	59	7.627	14.896	4.536	1.00	0.00
ATOM 887	CB	SER	A	59	9.515	13.394	6.006	1.00	0.00
ATOM 888	OG	SER	A	59	9.723	14.400	6.982	1.00	0.00
ATOM 889	H	SER	A	59	7.910	11.158	4.888	1.00	0.00
ATOM 890	HA	SER	A	59	7.558	13.269	6.861	1.00	0.00
ATOM 891	1HB	SER	A	59	10.110	12.530	6.266	1.00	0.00

ATOM 892	2HB	SER A	59	9.829	13.771	5.044	1.00	0.00
ATOM 893	HG	SER A	59	9.387	14.101	7.829	1.00	0.00
ATOM 894	N	TYR A	60	6.466	13.021	4.086	1.00	0.00
ATOM 895	CA	TYR A	60	5.742	13.603	2.961	1.00	0.00
ATOM 896	C	TYR A	60	4.514	12.765	2.618	1.00	0.00
ATOM 897	O	TYR A	60	3.433	13.298	2.373	1.00	0.00
ATOM 898	CB	TYR A	60	6.655	13.713	1.739	1.00	0.00
ATOM 899	CG	TYR A	60	7.642	14.855	1.821	1.00	0.00
ATOM 900	CD1	TYR A	60	8.995	14.647	1.587	1.00	0.00
ATOM 901	CD2	TYR A	60	7.220	16.142	2.133	1.00	0.00
ATOM 902	CE1	TYR A	60	9.901	15.688	1.662	1.00	0.00
ATOM 903	CE2	TYR A	60	8.119	17.189	2.209	1.00	0.00
ATOM 904	CZ	TYR A	60	9.458	16.957	1.974	1.00	0.00
ATOM 905	OH	TYR A	60	10.357	17.997	2.050	1.00	0.00
ATOM 906	H	TYR A	60	6.290	12.091	4.333	1.00	0.00
ATOM 907	HA	TYR A	60	5.418	14.592	3.250	1.00	0.00
ATOM 908	1HB	TYR A	60	7.217	12.797	1.635	1.00	0.00
ATOM 909	2HB	TYR A	60	6.048	13.859	0.857	1.00	0.00
ATOM 910	HD1	TYR A	60	9.338	13.653	1.343	1.00	0.00
ATOM 911	HD2	TYR A	60	6.171	16.320	2.318	1.00	0.00
ATOM 912	HE1	TYR A	60	10.949	15.506	1.478	1.00	0.00
ATOM 913	HE2	TYR A	60	7.772	18.181	2.453	1.00	0.00
ATOM 914	HH	TYR A	60	10.268	18.434	2.899	1.00	0.00
ATOM 915	N	PHE A	61	4.692	11.446	2.603	1.00	0.00
ATOM 916	CA	PHE A	61	3.601	10.526	2.292	1.00	0.00
ATOM 917	C	PHE A	61	2.389	10.798	3.177	1.00	0.00
ATOM 918	O	PHE A	61	2.476	10.730	4.403	1.00	0.00

ATOM 919	CB	PHE A	61	4.062	9.079	2.469	1.00	0.00
ATOM 920	CG	PHE A	61	3.315	8.096	1.613	1.00	0.00
ATOM 921	CD1	PHE A	61	3.996	7.237	0.766	1.00	0.00
ATOM 922	CD2	PHE A	61	1.931	8.031	1.656	1.00	0.00
ATOM 923	CE1	PHE A	61	3.312	6.330	-0.021	1.00	0.00
ATOM 924	CE2	PHE A	61	1.241	7.127	0.870	1.00	0.00
ATOM 925	CZ	PHE A	61	1.933	6.276	0.030	1.00	0.00
ATOM 926	H	PHE A	61	5.578	11.081	2.807	1.00	0.00
ATOM 927	HA	PHE A	61	3.321	10.682	1.260	1.00	0.00
ATOM 928	1HB	PHE A	61	5.109	9.009	2.216	1.00	0.00
ATOM 929	2HB	PHE A	61	3.929	8.791	3.502	1.00	0.00
ATOM 930	HD1	PHE A	61	5.075	7.278	0.725	1.00	0.00
ATOM 931	HD2	PHE A	61	1.389	8.696	2.312	1.00	0.00
ATOM 932	HE1	PHE A	61	3.855	5.666	-0.677	1.00	0.00
ATOM 933	HE2	PHE A	61	0.164	7.086	0.913	1.00	0.00
ATOM 934	HZ	PHE A	61	1.396	5.568	-0.584	1.00	0.00
ATOM 935	N	SER A	62	1.260	11.105	2.547	1.00	0.00
ATOM 936	CA	SER A	62	0.030	11.387	3.278	1.00	0.00
ATOM 937	C	SER A	62	-0.771	10.109	3.507	1.00	0.00
ATOM 938	O	SER A	62	-1.019	9.716	4.647	1.00	0.00
ATOM 939	CB	SER A	62	-0.818	12.405	2.516	1.00	0.00
ATOM 940	OG	SER A	62	-1.877	12.894	3.322	1.00	0.00
ATOM 941	H	SER A	62	1.254	11.144	1.568	1.00	0.00
ATOM 942	HA	SER A	62	0.302	11.803	4.237	1.00	0.00
ATOM 943	1HB	SER A	62	-0.197	13.237	2.218	1.00	0.00
ATOM 944	2HB	SER A	62	-1.238	11.937	1.638	1.00	0.00
ATOM 945	HG	SER A	62	-2.290	12.162	3.786	1.00	0.00



ATOM 946	N	ASP	A	63	-1.173	9.466	2.415	1.00	0.00
ATOM 947	CA	ASP	A	63	-1.946	8.232	2.495	1.00	0.00
ATOM 948	C	ASP	A	63	-2.257	7.694	1.103	1.00	0.00
ATOM 949	O	ASP	A	63	-1.838	8.267	0.097	1.00	0.00
ATOM 950	CB	ASP	A	63	-3.249	8.470	3.264	1.00	0.00
ATOM 951	CG	ASP	A	63	-3.987	9.705	2.784	1.00	0.00
ATOM 952	OD1	ASP	A	63	-3.549	10.825	3.119	1.00	0.00
ATOM 953	OD2	ASP	A	63	-5.000	9.551	2.072	1.00	0.00
ATOM 954	H	ASP	A	63	-0.943	9.830	1.534	1.00	0.00
ATOM 955	HA	ASP	A	63	-1.354	7.503	3.027	1.00	0.00
ATOM 956	1HB	ASP	A	63	-3.896	7.616	3.137	1.00	0.00
ATOM 957	2HB	ASP	A	63	-3.023	8.593	4.313	1.00	0.00
ATOM 958	N	CYS	A	64	-2.995	6.590	1.052	1.00	0.00
ATOM 959	CA	CYS	A	64	-3.363	5.974	-0.217	1.00	0.00
ATOM 960	C	CYS	A	64	-4.864	6.083	-0.458	1.00	0.00
ATOM 961	O	CYS	A	64	-5.624	6.435	0.444	1.00	0.00
ATOM 962	CB	CYS	A	64	-2.935	4.505	-0.240	1.00	0.00
ATOM 963	SG	CYS	A	64	-2.142	3.992	-1.781	1.00	0.00
ATOM 964	H	CYS	A	64	-3.300	6.180	1.889	1.00	0.00
ATOM 965	HA	CYS	A	64	-2.846	6.503	-1.004	1.00	0.00
ATOM 966	1HB	CYS	A	64	-2.233	4.332	0.562	1.00	0.00
ATOM 967	2HB	CYS	A	64	-3.803	3.882	-0.092	1.00	0.00
ATOM 968	HG	CYS	A	64	-2.194	3.035	-1.836	1.00	0.00
ATOM 969	N	GLN	A	65	-5.286	5.778	-1.681	1.00	0.00
ATOM 970	CA	GLN	A	65	-6.696	5.841	-2.041	1.00	0.00
ATOM 971	C	GLN	A	65	-7.113	4.601	-2.824	1.00	0.00
ATOM 972	O	GLN	A	65	-6.894	4.515	-4.033	1.00	0.00

ATOM 973	CB	GLN A	65	-6.978	7.099	-2.865	1.00	0.00
ATOM 974	CG	GLN A	65	-8.388	7.638	-2.688	1.00	0.00
ATOM 975	CD	GLN A	65	-8.955	8.221	-3.968	1.00	0.00
ATOM 976	OE1	GLN A	65	-8.256	8.907	-4.714	1.00	0.00
ATOM 977	NE2	GLN A	65	-10.228	7.947	-4.229	1.00	0.00
ATOM 978	H	GLN A	65	-4.631	5.504	-2.358	1.00	0.00
ATOM 979	HA	GLN A	65	-7.269	5.884	-1.127	1.00	0.00
ATOM 980	1HB	GLN A	65	-6.282	7.870	-2.573	1.00	0.00
ATOM 981	2HB	GLN A	65	-6.831	6.870	-3.911	1.00	0.00
ATOM 982	1HG	GLN A	65	-9.029	6.832	-2.363	1.00	0.00
ATOM 983	2HG	GLN A	65	-8.372	8.411	-1.934	1.00	0.00
ATOM 984	1HE2	GLN A	65	-10.724	7.394	-3.591	1.00	0.00
ATOM 985	2HE2	GLN A	65	-10.620	8.312	-5.051	1.00	0.00
ATOM 986	N	VAL A	66	-7.716	3.642	-2.129	1.00	0.00
ATOM 987	CA	VAL A	66	-8.164	2.407	-2.760	1.00	0.00
ATOM 988	C	VAL A	66	-9.297	2.678	-3.747	1.00	0.00
ATOM 989	O	VAL A	66	-10.447	2.870	-3.352	1.00	0.00
ATOM 990	CB	VAL A	66	-8.636	1.380	-1.710	1.00	0.00
ATOM 991	CG1	VAL A	66	-9.787	1.939	-0.888	1.00	0.00
ATOM 992	CG2	VAL A	66	-9.033	0.071	-2.378	1.00	0.00
ATOM 993	H	VAL A	66	-7.862	3.769	-1.168	1.00	0.00
ATOM 994	HA	VAL A	66	-7.327	1.985	-3.295	1.00	0.00
ATOM 995	HB	VAL A	66	-7.812	1.180	-1.039	1.00	0.00
ATOM 996	1HG1	VAL A	66	-9.663	3.005	-0.773	1.00	0.00
ATOM 997	2HG1	VAL A	66	-9.797	1.470	0.084	1.00	0.00
ATOM 998	3HG1	VAL A	66	-10.720	1.738	-1.394	1.00	0.00
ATOM 999	1HG2	VAL A	66	-9.707	0.275	-3.197	1.00	0.00

ATOM 1000	2HG2	VAL	A	66	-9.523	-0.567	-1.658	1.00	0.00
ATOM 1001	3HG2	VAL	A	66	-8.148	-0.423	-2.755	1.00	0.00
ATOM 1002	N	LEU	A	67	-8.962	2.693	-5.032	1.00	0.00
ATOM 1003	CA	LEU	A	67	-9.949	2.941	-6.076	1.00	0.00
ATOM 1004	C	LEU	A	67	-10.936	1.782	-6.178	1.00	0.00
ATOM 1005	O	LEU	A	67	-12.146	1.973	-6.062	1.00	0.00
ATOM 1006	CB	LEU	A	67	-9.256	3.157	-7.423	1.00	0.00
ATOM 1007	CG	LEU	A	67	-8.070	4.123	-7.393	1.00	0.00
ATOM 1008	CD1	LEU	A	67	-7.439	4.235	-8.772	1.00	0.00
ATOM 1009	CD2	LEU	A	67	-8.510	5.489	-6.892	1.00	0.00
ATOM 1010	H	LEU	A	67	-8.029	2.534	-5.285	1.00	0.00
ATOM 1011	HA	LEU	A	67	-10.491	3.837	-5.813	1.00	0.00
ATOM 1012	1HB	LEU	A	67	-8.906	2.199	-7.780	1.00	0.00
ATOM 1013	2HB	LEU	A	67	-9.984	3.538	-8.122	1.00	0.00
ATOM 1014	HG	LEU	A	67	-7.321	3.741	-6.713	1.00	0.00
ATOM 1015	1HD1	LEU	A	67	-6.637	3.518	-8.861	1.00	0.00
ATOM 1016	2HD1	LEU	A	67	-7.047	5.233	-8.907	1.00	0.00
ATOM 1017	3HD1	LEU	A	67	-8.185	4.036	-9.527	1.00	0.00
ATOM 1018	1HD2	LEU	A	67	-7.653	6.145	-6.835	1.00	0.00
ATOM 1019	2HD2	LEU	A	67	-8.952	5.390	-5.911	1.00	0.00
ATOM 1020	3HD2	LEU	A	67	-9.237	5.907	-7.574	1.00	0.00
ATOM 1021	N	ALA	A	68	-10.410	0.582	-6.397	1.00	0.00
ATOM 1022	CA	ALA	A	68	-11.243	-0.609	-6.515	1.00	0.00
ATOM 1023	C	ALA	A	68	-10.390	-1.864	-6.650	1.00	0.00
ATOM 1024	O	ALA	A	68	-9.165	-1.810	-6.536	1.00	0.00
ATOM 1025	CB	ALA	A	68	-12.184	-0.479	-7.704	1.00	0.00
ATOM 1026	H	ALA	A	68	-9.437	0.495	-6.481	1.00	0.00

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ATOM 1027	HA	ALA	A	68	-11.842	-0.686	-5.620	1.00	0.00
ATOM 1028	1HB	ALA	A	68	-11.736	-0.942	-8.570	1.00	0.00
ATOM 1029	2HB	ALA	A	68	-12.364	0.567	-7.908	1.00	0.00
ATOM 1030	3HB	ALA	A	68	-13.120	-0.967	-7.477	1.00	0.00
ATOM 1031	N	PHE	A	69	-11.044	-2.995	-6.893	1.00	0.00
ATOM 1032	CA	PHE	A	69	-10.344	-4.266	-7.043	1.00	0.00
ATOM 1033	C	PHE	A	69	-10.445	-4.777	-8.477	1.00	0.00
ATOM 1034	O	PHE	A	69	-11.237	-4.272	-9.273	1.00	0.00
ATOM 1035	CB	PHE	A	69	-10.918	-5.305	-6.078	1.00	0.00
ATOM 1036	CG	PHE	A	69	-10.833	-4.896	-4.635	1.00	0.00
ATOM 1037	CD1	PHE	A	69	-11.973	-4.522	-3.940	1.00	0.00
ATOM 1038	CD2	PHE	A	69	-9.615	-4.886	-3.974	1.00	0.00
ATOM 1039	CE1	PHE	A	69	-11.899	-4.145	-2.613	1.00	0.00
ATOM 1040	CE2	PHE	A	69	-9.536	-4.509	-2.646	1.00	0.00
ATOM 1041	CZ	PHE	A	69	-10.679	-4.138	-1.965	1.00	0.00
ATOM 1042	H	PHE	A	69	-12.021	-2.975	-6.972	1.00	0.00
ATOM 1043	HA	PHE	A	69	-9.305	-4.101	-6.804	1.00	0.00
ATOM 1044	1HB	PHE	A	69	-11.958	-5.471	-6.315	1.00	0.00
ATOM 1045	2HB	PHE	A	69	-10.375	-6.232	-6.194	1.00	0.00
ATOM 1046	HD1	PHE	A	69	-12.928	-4.526	-4.446	1.00	0.00
ATOM 1047	HD2	PHE	A	69	-8.722	-5.175	-4.505	1.00	0.00
ATOM 1048	HE1	PHE	A	69	-12.794	-3.855	-2.082	1.00	0.00
ATOM 1049	HE2	PHE	A	69	-8.581	-4.506	-2.142	1.00	0.00
ATOM 1050	HZ	PHE	A	69	-10.619	-3.844	-0.928	1.00	0.00
ATOM 1051	N	ARG	A	70	-9.637	-5.782	-8.798	1.00	0.00
ATOM 1052	CA	ARG	A	70	-9.634	-6.363	-10.136	1.00	0.00
ATOM 1053	C	ARG	A	70	-9.790	-7.879	-10.069	1.00	0.00

ATOM	1054	O	ARG	A	70	-9.238	-8.531	-9.184	1.00	0.00
ATOM	1055	CB	ARG	A	70	-8.341	-6.004	-10.869	1.00	0.00
ATOM	1056	CG	ARG	A	70	-7.987	-4.527	-10.792	1.00	0.00
ATOM	1057	CD	ARG	A	70	-8.898	-3.690	-11.676	1.00	0.00
ATOM	1058	NE	ARG	A	70	-8.759	-4.036	-13.089	1.00	0.00
ATOM	1059	CZ	ARG	A	70	-7.760	-3.612	-13.861	1.00	0.00
ATOM	1060	NH1	ARG	A	70	-6.811	-2.829	-13.361	1.00	0.00
ATOM	1061	NH2	ARG	A	70	-7.708	-3.973	-15.136	1.00	0.00
ATOM	1062	H	ARG	A	70	-9.029	-6.143	-8.119	1.00	0.00
ATOM	1063	HA	ARG	A	70	-10.472	-5.951	-10.678	1.00	0.00
ATOM	1064	1HB	ARG	A	70	-7.527	-6.569	-10.439	1.00	0.00
ATOM	1065	2HB	ARG	A	70	-8.445	-6.273	-11.910	1.00	0.00
ATOM	1066	1HG	ARG	A	70	-8.091	-4.195	-9.770	1.00	0.00
ATOM	1067	2HG	ARG	A	70	-6.965	-4.395	-11.115	1.00	0.00
ATOM	1068	1HD	ARG	A	70	-9.921	-3.855	-11.376	1.00	0.00
ATOM	1069	2HD	ARG	A	70	-8.648	-2.648	-11.543	1.00	0.00
ATOM	1070	HE	ARG	A	70	-9.445	-4.613	-13.484	1.00	0.00
ATOM	1071	1HH1	ARG	A	70	-6.843	-2.554	-12.400	1.00	0.00
ATOM	1072	2HH1	ARG	A	70	-6.063	-2.515	-13.946	1.00	0.00
ATOM	1073	1HH2	ARG	A	70	-8.420	-4.563	-15.518	1.00	0.00
ATOM	1074	2HH2	ARG	A	70	-6.958	-3.654	-15.716	1.00	0.00
ATOM	1075	N	SER	A	71	-10.546	-8.434	-11.011	1.00	0.00
ATOM	1076	CA	SER	A	71	-10.774	-9.873	-11.058	1.00	0.00
ATOM	1077	C	SER	A	71	-9.618	-10.583	-11.755	1.00	0.00
ATOM	1078	O	SER	A	71	-8.996	-10.034	-12.665	1.00	0.00
ATOM	1079	CB	SER	A	71	-12.087	-10.180	-11.781	1.00	0.00
ATOM	1080	OG	SER	A	71	-12.398	-9.171	-12.724	1.00	0.00

ATOM 1081	H	SER A	71	-10.960	-7.861	-11.691	1.00	0.00
ATOM 1082	HA	SER A	71	-10.840	-10.231	-10.043	1.00	0.00
ATOM 1083	1HB	SER A	71	-11.999	-11.124	-12.298	1.00	0.00
ATOM 1084	2HB	SER A	71	-12.887	-10.239	-11.058	1.00	0.00
ATOM 1085	HG	SER A	71	-11.614	-8.954	-13.233	1.00	0.00
ATOM 1086	N	VAL A	72	-9.335	-11.808	-11.322	1.00	0.00
ATOM 1087	CA	VAL A	72	-8.253	-12.594	-11.904	1.00	0.00
ATOM 1088	C	VAL A	72	-8.796	-13.812	-12.645	1.00	0.00
ATOM 1089	O	VAL A	72	-9.825	-14.372	-12.269	1.00	0.00
ATOM 1090	CB	VAL A	72	-7.259	-13.064	-10.826	1.00	0.00
ATOM 1091	CG1	VAL A	72	-6.388	-11.908	-10.361	1.00	0.00
ATOM 1092	CG2	VAL A	72	-8.000	-13.689	-9.653	1.00	0.00
ATOM 1093	H	VAL A	72	-9.866	-12.192	-10.593	1.00	0.00
ATOM 1094	HA	VAL A	72	-7.723	-11.965	-12.604	1.00	0.00
ATOM 1095	HB	VAL A	72	-6.617	-13.817	-11.260	1.00	0.00
ATOM 1096	1HG1	VAL A	72	-7.008	-11.154	-9.900	1.00	0.00
ATOM 1097	2HG1	VAL A	72	-5.873	-11.481	-11.209	1.00	0.00
ATOM 1098	3HG1	VAL A	72	-5.665	-12.268	-9.643	1.00	0.00
ATOM 1099	1HG2	VAL A	72	-8.958	-14.058	-9.988	1.00	0.00
ATOM 1100	2HG2	VAL A	72	-8.149	-12.945	-8.884	1.00	0.00
ATOM 1101	3HG2	VAL A	72	-7.418	-14.507	-9.255	1.00	0.00
ATOM 1102	N	SER A	73	-8.095	-14.216	-13.699	1.00	0.00
ATOM 1103	CA	SER A	73	-8.505	-15.368	-14.494	1.00	0.00
ATOM 1104	C	SER A	73	-7.779	-16.630	-14.039	1.00	0.00
ATOM 1105	O	SER A	73	-6.882	-16.572	-13.197	1.00	0.00
ATOM 1106	CB	SER A	73	-8.230	-15.115	-15.977	1.00	0.00
ATOM 1107	OG	SER A	73	-8.682	-13.830	-16.369	1.00	0.00

ATOM 1108	H	SER A	73	-7.283	-13.728	-13.950	1.00	0.00
ATOM 1109	HA	SER A	73	-9.566	-15.507	-14.353	1.00	0.00
ATOM 1110	1HB	SER A	73	-7.168	-15.180	-16.162	1.00	0.00
ATOM 1111	2HB	SER A	73	-8.744	-15.860	-16.569	1.00	0.00
ATOM 1112	N	ASN A	74	-8.174	-17.769	-14.600	1.00	0.00
ATOM 1113	CA	ASN A	74	-7.562	-19.048	-14.254	1.00	0.00
ATOM 1114	C	ASN A	74	-7.843	-19.408	-12.797	1.00	0.00
ATOM 1115	O	ASN A	74	-8.704	-20.240	-12.508	1.00	0.00
ATOM 1116	CB	ASN A	74	-6.052	-19.004	-14.505	1.00	0.00
ATOM 1117	CG	ASN A	74	-5.606	-20.030	-15.528	1.00	0.00
ATOM 1118	OD1	ASN A	74	-5.789	-21.232	-15.340	1.00	0.00
ATOM 1119	ND2	ASN A	74	-5.016	-19.559	-16.621	1.00	0.00
ATOM 1120	H	ASN A	74	-8.894	-17.749	-15.265	1.00	0.00
ATOM 1121	HA	ASN A	74	-8.001	-19.805	-14.887	1.00	0.00
ATOM 1122	1HB	ASN A	74	-5.782	-18.023	-14.866	1.00	0.00
ATOM 1123	2HB	ASN A	74	-5.531	-19.197	-13.579	1.00	0.00
ATOM 1124	1HD2	ASN A	74	-4.903	-18.588	-16.704	1.00	0.00
ATOM 1125	2HD2	ASN A	74	-4.718	-20.199	-17.300	1.00	0.00
ATOM 1126	N	ASN A	75	-7.112	-18.777	-11.884	1.00	0.00
ATOM 1127	CA	ASN A	75	-7.285	-19.030	-10.458	1.00	0.00
ATOM 1128	C	ASN A	75	-8.190	-17.980	-9.825	1.00	0.00
ATOM 1129	O	ASN A	75	-7.844	-16.799	-9.771	1.00	0.00
ATOM 1130	CB	ASN A	75	-5.927	-19.043	-9.754	1.00	0.00
ATOM 1131	CG	ASN A	75	-5.866	-20.063	-8.633	1.00	0.00
ATOM 1132	OD1	ASN A	75	-6.780	-20.871	-8.464	1.00	0.00
ATOM 1133	ND2	ASN A	75	-4.788	-20.029	-7.859	1.00	0.00
ATOM 1134	H	ASN A	75	-6.443	-18.124	-12.175	1.00	0.00

ATOM	1135	HA	ASN	A	75	-7.747	-20.000	-10.348	1.00	0.00
ATOM	1136	1HB	ASN	A	75	-5.157	-19.280	-10.472	1.00	0.00
ATOM	1137	2HB	ASN	A	75	-5.736	-18.065	-9.337	1.00	0.00
ATOM	1138	1HD2	ASN	A	75	-4.101	-19.358	-8.053	1.00	0.00
ATOM	1139	2HD2	ASN	A	75	-4.723	-20.678	-7.128	1.00	0.00
ATOM	1140	N	ASN	A	76	-9.351	-18.416	-9.348	1.00	0.00
ATOM	1141	CA	ASN	A	76	-10.306	-17.512	-8.719	1.00	0.00
ATOM	1142	C	ASN	A	76	-10.102	-17.468	-7.207	1.00	0.00
ATOM	1143	O	ASN	A	76	-11.056	-17.578	-6.437	1.00	0.00
ATOM	1144	CB	ASN	A	76	-11.738	-17.944	-9.043	1.00	0.00
ATOM	1145	CG	ASN	A	76	-12.114	-17.665	-10.484	1.00	0.00
ATOM	1146	OD1	ASN	A	76	-12.255	-18.584	-11.291	1.00	0.00
ATOM	1147	ND2	ASN	A	76	-12.278	-16.390	-10.817	1.00	0.00
ATOM	1148	H	ASN	A	76	-9.571	-19.368	-9.420	1.00	0.00
ATOM	1149	HA	ASN	A	76	-10.140	-16.523	-9.120	1.00	0.00
ATOM	1150	1HB	ASN	A	76	-11.836	-19.004	-8.864	1.00	0.00
ATOM	1151	2HB	ASN	A	76	-12.423	-17.410	-8.401	1.00	0.00
ATOM	1152	1HD2	ASN	A	76	-12.150	-15.711	-10.123	1.00	0.00
ATOM	1153	2HD2	ASN	A	76	-12.522	-16.181	-11.743	1.00	0.00
ATOM	1154	N	ASN	A	77	-8.851	-17.306	-6.788	1.00	0.00
ATOM	1155	CA	ASN	A	77	-8.522	-17.247	-5.368	1.00	0.00
ATOM	1156	C	ASN	A	77	-7.686	-16.010	-5.047	1.00	0.00
ATOM	1157	O	ASN	A	77	-7.008	-15.960	-4.020	1.00	0.00
ATOM	1158	CB	ASN	A	77	-7.767	-18.508	-4.947	1.00	0.00
ATOM	1159	CG	ASN	A	77	-7.866	-18.772	-3.457	1.00	0.00
ATOM	1160	OD1	ASN	A	77	-6.854	-18.896	-2.768	1.00	0.00
ATOM	1161	ND2	ASN	A	77	-9.091	-18.857	-2.952	1.00	0.00



ATOM	1162	H	ASN	A	77	-8.132	-17.223	-7.448	1.00	0.00
ATOM	1163	HA	ASN	A	77	-9.448	-17.194	-4.816	1.00	0.00
ATOM	1164	1HB	ASN	A	77	-8.177	-19.358	-5.471	1.00	0.00
ATOM	1165	2HB	ASN	A	77	-6.724	-18.399	-5.206	1.00	0.00
ATOM	1166	1HD2	ASN	A	77	-9.852	-18.748	-3.560	1.00	0.00
ATOM	1167	2HD2	ASN	A	77	-9.185	-19.027	-1.991	1.00	0.00
ATOM	1168	N	HIS	A	78	-7.741	-15.013	-5.926	1.00	0.00
ATOM	1169	CA	HIS	A	78	-6.988	-13.780	-5.728	1.00	0.00
ATOM	1170	C	HIS	A	78	-7.866	-12.561	-5.998	1.00	0.00
ATOM	1171	O	HIS	A	78	-9.038	-12.695	-6.349	1.00	0.00
ATOM	1172	CB	HIS	A	78	-5.762	-13.751	-6.644	1.00	0.00
ATOM	1173	CG	HIS	A	78	-4.996	-15.037	-6.662	1.00	0.00
ATOM	1174	ND1	HIS	A	78	-4.495	-15.599	-7.819	1.00	0.00
ATOM	1175	CD2	HIS	A	78	-4.642	-15.873	-5.657	1.00	0.00
ATOM	1176	CE1	HIS	A	78	-3.869	-16.724	-7.525	1.00	0.00
ATOM	1177	NE2	HIS	A	78	-3.943	-16.913	-6.220	1.00	0.00
ATOM	1178	H	HIS	A	78	-8.299	-15.109	-6.725	1.00	0.00
ATOM	1179	HA	HIS	A	78	-6.660	-13.753	-4.701	1.00	0.00
ATOM	1180	1HB	HIS	A	78	-6.081	-13.540	-7.654	1.00	0.00
ATOM	1181	2HB	HIS	A	78	-5.093	-12.969	-6.313	1.00	0.00
ATOM	1182	HD1	HIS	A	78	-4.588	-15.228	-8.722	1.00	0.00
ATOM	1183	HD2	HIS	A	78	-4.867	-15.745	-4.608	1.00	0.00
ATOM	1184	HE1	HIS	A	78	-3.378	-17.378	-8.231	1.00	0.00
ATOM	1185	HE2	HIS	A	78	-3.496	-17.632	-5.727	1.00	0.00
ATOM	1186	N	THR	A	79	-7.291	-11.375	-5.830	1.00	0.00
ATOM	1187	CA	THR	A	79	-8.024	-10.134	-6.056	1.00	0.00
ATOM	1188	C	THR	A	79	-7.067	-8.970	-6.286	1.00	0.00

ATOM	1189	O	THR	A	79	-6.205	-8.687	-5.454	1.00	0.00
ATOM	1190	CB	THR	A	79	-8.936	-9.833	-4.865	1.00	0.00
ATOM	1191	OG1	THR	A	79	-9.806	-10.921	-4.612	1.00	0.00
ATOM	1192	CG2	THR	A	79	-9.789	-8.598	-5.064	1.00	0.00
ATOM	1193	H	THR	A	79	-6.354	-11.332	-5.549	1.00	0.00
ATOM	1194	HA	THR	A	79	-8.632	-10.265	-6.939	1.00	0.00
ATOM	1195	HB	THR	A	79	-8.325	-9.674	-3.988	1.00	0.00
ATOM	1196	HG1	THR	A	79	-9.675	-11.233	-3.714	1.00	0.00
ATOM	1197	1HG2	THR	A	79	-10.508	-8.525	-4.261	1.00	0.00
ATOM	1198	2HG2	THR	A	79	-10.309	-8.669	-6.008	1.00	0.00
ATOM	1199	3HG2	THR	A	79	-9.159	-7.721	-5.064	1.00	0.00
ATOM	1200	N	GLY	A	80	-7.227	-8.294	-7.420	1.00	0.00
ATOM	1201	CA	GLY	A	80	-6.371	-7.167	-7.738	1.00	0.00
ATOM	1202	C	GLY	A	80	-6.693	-5.944	-6.903	1.00	0.00
ATOM	1203	O	GLY	A	80	-7.836	-5.751	-6.490	1.00	0.00
ATOM	1204	H	GLY	A	80	-7.932	-8.565	-8.045	1.00	0.00
ATOM	1205	1HA	GLY	A	80	-5.344	-7.448	-7.566	1.00	0.00
ATOM	1206	2HA	GLY	A	80	-6.495	-6.919	-8.782	1.00	0.00
ATOM	1207	N	VAL	A	81	-5.683	-5.117	-6.651	1.00	0.00
ATOM	1208	CA	VAL	A	81	-5.867	-3.908	-5.858	1.00	0.00
ATOM	1209	C	VAL	A	81	-5.486	-2.663	-6.651	1.00	0.00
ATOM	1210	O	VAL	A	81	-4.358	-2.537	-7.125	1.00	0.00
ATOM	1211	CB	VAL	A	81	-5.032	-3.952	-4.563	1.00	0.00
ATOM	1212	CG1	VAL	A	81	-5.306	-2.727	-3.702	1.00	0.00
ATOM	1213	CG2	VAL	A	81	-5.318	-5.231	-3.788	1.00	0.00
ATOM	1214	H	VAL	A	81	-4.794	-5.326	-7.007	1.00	0.00
ATOM	1215	HA	VAL	A	81	-6.911	-3.843	-5.586	1.00	0.00

ATOM	1216	HB	VAL	A	81	-3.986	-3.948	-4.832	1.00	0.00
ATOM	1217	1HG1	VAL	A	81	-5.109	-2.963	-2.667	1.00	0.00
ATOM	1218	2HG1	VAL	A	81	-6.339	-2.433	-3.814	1.00	0.00
ATOM	1219	3HG1	VAL	A	81	-4.665	-1.916	-4.015	1.00	0.00
ATOM	1220	1HG2	VAL	A	81	-5.318	-6.070	-4.468	1.00	0.00
ATOM	1221	2HG2	VAL	A	81	-6.284	-5.154	-3.312	1.00	0.00
ATOM	1222	3HG2	VAL	A	81	-4.556	-5.375	-3.037	1.00	0.00
ATOM	1223	N	ASP	A	82	-6.435	-1.743	-6.785	1.00	0.00
ATOM	1224	CA	ASP	A	82	-6.200	-0.502	-7.513	1.00	0.00
ATOM	1225	C	ASP	A	82	-6.172	0.683	-6.552	1.00	0.00
ATOM	1226	O	ASP	A	82	-7.168	1.389	-6.392	1.00	0.00
ATOM	1227	CB	ASP	A	82	-7.285	-0.292	-8.572	1.00	0.00
ATOM	1228	CG	ASP	A	82	-7.062	-1.147	-9.804	1.00	0.00
ATOM	1229	OD1	ASP	A	82	-6.510	-2.259	-9.664	1.00	0.00
ATOM	1230	OD2	ASP	A	82	-7.441	-0.705	-10.910	1.00	0.00
ATOM	1231	H	ASP	A	82	-7.312	-1.900	-6.379	1.00	0.00
ATOM	1232	HA	ASP	A	82	-5.240	-0.578	-8.002	1.00	0.00
ATOM	1233	1HB	ASP	A	82	-8.246	-0.547	-8.150	1.00	0.00
ATOM	1234	2HB	ASP	A	82	-7.291	0.745	-8.872	1.00	0.00
ATOM	1235	N	SER	A	83	-5.027	0.888	-5.910	1.00	0.00
ATOM	1236	CA	SER	A	83	-4.871	1.980	-4.957	1.00	0.00
ATOM	1237	C	SER	A	83	-4.116	3.149	-5.583	1.00	0.00
ATOM	1238	O	SER	A	83	-3.646	3.062	-6.718	1.00	0.00
ATOM	1239	CB	SER	A	83	-4.137	1.489	-3.709	1.00	0.00
ATOM	1240	OG	SER	A	83	-3.144	0.535	-4.044	1.00	0.00
ATOM	1241	H	SER	A	83	-4.271	0.288	-6.076	1.00	0.00
ATOM	1242	HA	SER	A	83	-5.858	2.316	-4.674	1.00	0.00

ATOM	1243	1HB	SER	A	83	-3.663	2.325	-3.219	1.00	0.00
ATOM	1244	2HB	SER	A	83	-4.845	1.031	-3.034	1.00	0.00
ATOM	1245	HG	SER	A	83	-3.564	-0.289	-4.299	1.00	0.00
ATOM	1246	N	LEU	A	84	-4.009	4.244	-4.836	1.00	0.00
ATOM	1247	CA	LEU	A	84	-3.316	5.433	-5.318	1.00	0.00
ATOM	1248	C	LEU	A	84	-2.381	5.993	-4.248	1.00	0.00
ATOM	1249	O	LEU	A	84	-2.834	6.540	-3.242	1.00	0.00
ATOM	1250	CB	LEU	A	84	-4.330	6.502	-5.734	1.00	0.00
ATOM	1251	CG	LEU	A	84	-3.778	7.609	-6.634	1.00	0.00
ATOM	1252	CD1	LEU	A	84	-2.770	8.461	-5.879	1.00	0.00
ATOM	1253	CD2	LEU	A	84	-3.147	7.013	-7.883	1.00	0.00
ATOM	1254	H	LEU	A	84	-4.407	4.252	-3.941	1.00	0.00
ATOM	1255	HA	LEU	A	84	-2.729	5.151	-6.179	1.00	0.00
ATOM	1256	1HB	LEU	A	84	-5.140	6.013	-6.254	1.00	0.00
ATOM	1257	2HB	LEU	A	84	-4.724	6.960	-4.839	1.00	0.00
ATOM	1258	HG	LEU	A	84	-4.591	8.250	-6.943	1.00	0.00
ATOM	1259	1HD1	LEU	A	84	-1.793	8.004	-5.943	1.00	0.00
ATOM	1260	2HD1	LEU	A	84	-3.065	8.535	-4.843	1.00	0.00
ATOM	1261	3HD1	LEU	A	84	-2.735	9.448	-6.315	1.00	0.00
ATOM	1262	1HD2	LEU	A	84	-2.097	6.835	-7.706	1.00	0.00
ATOM	1263	2HD2	LEU	A	84	-3.262	7.703	-8.707	1.00	0.00
ATOM	1264	3HD2	LEU	A	84	-3.636	6.081	-8.124	1.00	0.00
ATOM	1265	N	CYS	A	85	-1.079	5.858	-4.472	1.00	0.00
ATOM	1266	CA	CYS	A	85	-0.087	6.358	-3.527	1.00	0.00
ATOM	1267	C	CYS	A	85	-0.116	7.883	-3.478	1.00	0.00
ATOM	1268	O	CYS	A	85	0.748	8.549	-4.049	1.00	0.00
ATOM	1269	CB	CYS	A	85	1.313	5.873	-3.912	1.00	0.00

ATOM 1270	SG	CYS A	85	1.651	4.160	-3.446	1.00	0.00
ATOM 1271	H	CYS A	85	-0.776	5.416	-5.295	1.00	0.00
ATOM 1272	HA	CYS A	85	-0.336	5.970	-2.551	1.00	0.00
ATOM 1273	1HB	CYS A	85	1.432	5.952	-4.982	1.00	0.00
ATOM 1274	2HB	CYS A	85	2.050	6.497	-3.427	1.00	0.00
ATOM 1275	HG	CYS A	85	2.379	3.844	-3.986	1.00	0.00
ATOM 1276	N	ASN A	86	-1.121	8.428	-2.801	1.00	0.00
ATOM 1277	CA	ASN A	86	-1.270	9.874	-2.684	1.00	0.00
ATOM 1278	C	ASN A	86	-0.186	10.471	-1.791	1.00	0.00
ATOM 1279	O	ASN A	86	0.246	9.849	-0.821	1.00	0.00
ATOM 1280	CB	ASN A	86	-2.653	10.220	-2.127	1.00	0.00
ATOM 1281	CG	ASN A	86	-3.595	10.733	-3.199	1.00	0.00
ATOM 1282	OD1	ASN A	86	-3.330	11.751	-3.839	1.00	0.00
ATOM 1283	ND2	ASN A	86	-4.703	10.030	-3.399	1.00	0.00
ATOM 1284	H	ASN A	86	-1.781	7.844	-2.372	1.00	0.00
ATOM 1285	HA	ASN A	86	-1.176	10.297	-3.673	1.00	0.00
ATOM 1286	1HB	ASN A	86	-3.089	9.335	-1.687	1.00	0.00
ATOM 1287	2HB	ASN A	86	-2.551	10.981	-1.368	1.00	0.00
ATOM 1288	1HD2	ASN A	86	-4.849	9.230	-2.853	1.00	0.00
ATOM 1289	2HD2	ASN A	86	-5.330	10.339	-4.086	1.00	0.00
ATOM 1290	N	PHE A	87	0.247	11.682	-2.128	1.00	0.00
ATOM 1291	CA	PHE A	87	1.277	12.369	-1.359	1.00	0.00
ATOM 1292	C	PHE A	87	0.842	13.790	-1.020	1.00	0.00
ATOM 1293	O	PHE A	87	0.177	14.453	-1.816	1.00	0.00
ATOM 1294	CB	PHE A	87	2.592	12.397	-2.140	1.00	0.00
ATOM 1295	CG	PHE A	87	3.468	11.204	-1.880	1.00	0.00
ATOM 1296	CD1	PHE A	87	3.145	9.964	-2.407	1.00	0.00

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ATOM	1297	CD2	PHE	A	87	4.611	11.324	-1.107	1.00	0.00
ATOM	1298	CE1	PHE	A	87	3.949	8.865	-2.170	1.00	0.00
ATOM	1299	CE2	PHE	A	87	5.419	10.229	-0.865	1.00	0.00
ATOM	1300	CZ	PHE	A	87	5.087	8.998	-1.397	1.00	0.00
ATOM	1301	H	PHE	A	87	-0.140	12.126	-2.912	1.00	0.00
ATOM	1302	HA	PHE	A	87	1.426	11.821	-0.440	1.00	0.00
ATOM	1303	1HB	PHE	A	87	2.374	12.424	-3.197	1.00	0.00
ATOM	1304	2HB	PHE	A	87	3.145	13.283	-1.868	1.00	0.00
ATOM	1305	HD1	PHE	A	87	2.257	9.860	-3.011	1.00	0.00
ATOM	1306	HD2	PHE	A	87	4.871	12.287	-0.691	1.00	0.00
ATOM	1307	HE1	PHE	A	87	3.686	7.903	-2.587	1.00	0.00
ATOM	1308	HE2	PHE	A	87	6.307	10.336	-0.261	1.00	0.00
ATOM	1309	HZ	PHE	A	87	5.717	8.141	-1.209	1.00	0.00
ATOM	1310	N	SER	A	88	1.219	14.253	0.168	1.00	0.00
ATOM	1311	CA	SER	A	88	0.866	15.596	0.611	1.00	0.00
ATOM	1312	C	SER	A	88	1.472	16.653	-0.311	1.00	0.00
ATOM	1313	O	SER	A	88	2.479	16.407	-0.972	1.00	0.00
ATOM	1314	CB	SER	A	88	1.337	15.823	2.050	1.00	0.00
ATOM	1315	OG	SER	A	88	0.242	15.858	2.947	1.00	0.00
ATOM	1316	H	SER	A	88	1.748	13.678	0.760	1.00	0.00
ATOM	1317	HA	SER	A	88	-0.210	15.683	0.579	1.00	0.00
ATOM	1318	1HB	SER	A	88	1.997	15.019	2.341	1.00	0.00
ATOM	1319	2HB	SER	A	88	1.867	16.762	2.111	1.00	0.00
ATOM	1320	HG	SER	A	88	0.072	14.973	3.280	1.00	0.00
ATOM	1321	N	PRO	A	89	0.861	17.850	-0.364	1.00	0.00
ATOM	1322	CA	PRO	A	89	1.346	18.946	-1.209	1.00	0.00
ATOM	1323	C	PRO	A	89	2.800	19.301	-0.917	1.00	0.00

ATOM 1324	O	PRO A	89	3.519	19.781	-1.792	1.00	0.00
ATOM 1325	CB	PRO A	89	0.430	20.116	-0.849	1.00	0.00
ATOM 1326	CG	PRO A	89	-0.797	19.489	-0.284	1.00	0.00
ATOM 1327	CD	PRO A	89	-0.345	18.226	0.394	1.00	0.00
ATOM 1328	HA	PRO A	89	1.238	18.715	-2.256	1.00	0.00
ATOM 1329	1HB	PRO A	89	0.921	20.745	-0.127	1.00	0.00
ATOM 1330	2HB	PRO A	89	0.207	20.688	-1.738	1.00	0.00
ATOM 1331	1HG	PRO A	89	-1.255	20.156	0.432	1.00	0.00
ATOM 1332	2HG	PRO A	89	-1.492	19.259	-1.079	1.00	0.00
ATOM 1333	1HD	PRO A	89	-0.105	18.419	1.430	1.00	0.00
ATOM 1334	2HD	PRO A	89	-1.104	17.463	0.316	1.00	0.00
ATOM 1335	N	LEU A	90	3.225	19.060	0.318	1.00	0.00
ATOM 1336	CA	LEU A	90	4.594	19.352	0.727	1.00	0.00
ATOM 1337	C	LEU A	90	5.582	18.420	0.032	1.00	0.00
ATOM 1338	O	LEU A	90	6.743	18.773	-0.174	1.00	0.00
ATOM 1339	CB	LEU A	90	4.735	19.222	2.245	1.00	0.00
ATOM 1340	CG	LEU A	90	4.011	20.297	3.057	1.00	0.00
ATOM 1341	CD1	LEU A	90	2.511	20.047	3.059	1.00	0.00
ATOM 1342	CD2	LEU A	90	4.547	20.340	4.480	1.00	0.00
ATOM 1343	H	LEU A	90	2.604	18.675	0.972	1.00	0.00
ATOM 1344	HA	LEU A	90	4.815	20.369	0.440	1.00	0.00
ATOM 1345	1HB	LEU A	90	4.349	18.256	2.539	1.00	0.00
ATOM 1346	2HB	LEU A	90	5.785	19.262	2.493	1.00	0.00
ATOM 1347	HG	LEU A	90	4.188	21.262	2.604	1.00	0.00
ATOM 1348	1HD1	LEU A	90	2.320	19.008	3.284	1.00	0.00
ATOM 1349	2HD1	LEU A	90	2.105	20.285	2.086	1.00	0.00
ATOM 1350	3HD1	LEU A	90	2.042	20.670	3.806	1.00	0.00

ATOM	1351	1HD2	LEU	A	90	4.408	19.375	4.947	1.00	0.00
ATOM	1352	2HD2	LEU	A	90	4.014	21.091	5.044	1.00	0.00
ATOM	1353	3HD2	LEU	A	90	5.600	20.582	4.462	1.00	0.00
ATOM	1354	N	ALA	A	91	5.113	17.228	-0.329	1.00	0.00
ATOM	1355	CA	ALA	A	91	5.956	16.246	-1.000	1.00	0.00
ATOM	1356	C	ALA	A	91	6.548	16.814	-2.286	1.00	0.00
ATOM	1357	O	ALA	A	91	5.930	17.645	-2.952	1.00	0.00
ATOM	1358	CB	ALA	A	91	5.159	14.984	-1.298	1.00	0.00
ATOM	1359	H	ALA	A	91	4.179	17.005	-0.138	1.00	0.00
ATOM	1360	HA	ALA	A	91	6.761	15.984	-0.330	1.00	0.00
ATOM	1361	1HB	ALA	A	91	4.519	15.155	-2.151	1.00	0.00
ATOM	1362	2HB	ALA	A	91	4.555	14.730	-0.440	1.00	0.00
ATOM	1363	3HB	ALA	A	91	5.838	14.172	-1.514	1.00	0.00
ATOM	1364	N	ARG	A	92	7.749	16.360	-2.629	1.00	0.00
ATOM	1365	CA	ARG	A	92	8.427	16.821	-3.835	1.00	0.00
ATOM	1366	C	ARG	A	92	9.631	15.942	-4.152	1.00	0.00
ATOM	1367	O	ARG	A	92	10.247	15.367	-3.254	1.00	0.00
ATOM	1368	CB	ARG	A	92	8.871	18.276	-3.669	1.00	0.00
ATOM	1369	CG	ARG	A	92	9.508	18.863	-4.918	1.00	0.00
ATOM	1370	CD	ARG	A	92	9.087	20.308	-5.132	1.00	0.00
ATOM	1371	NE	ARG	A	92	10.085	21.250	-4.632	1.00	0.00
ATOM	1372	CZ	ARG	A	92	11.295	21.402	-5.166	1.00	0.00
ATOM	1373	NH1	ARG	A	92	11.661	20.678	-6.216	1.00	0.00
ATOM	1374	NH2	ARG	A	92	12.141	22.283	-4.649	1.00	0.00
ATOM	1375	H	ARG	A	92	8.191	15.697	-2.057	1.00	0.00
ATOM	1376	HA	ARG	A	92	7.725	16.759	-4.653	1.00	0.00
ATOM	1377	1HB	ARG	A	92	8.011	18.876	-3.413	1.00	0.00



ATOM	1378	2HB	ARG	A	92	9.590	18.331	-2.865	1.00	0.00
ATOM	1379	1HG	ARG	A	92	10.582	18.823	-4.816	1.00	0.00
ATOM	1380	2HG	ARG	A	92	9.204	18.278	-5.775	1.00	0.00
ATOM	1381	1HD	ARG	A	92	8.947	20.477	-6.191	1.00	0.00
ATOM	1382	2HD	ARG	A	92	8.154	20.478	-4.616	1.00	0.00
ATOM	1383	HE	ARG	A	92	9.841	21.798	-3.856	1.00	0.00
ATOM	1384	1HH1	ARG	A	92	11.027	20.011	-6.610	1.00	0.00
ATOM	1385	2HH1	ARG	A	92	12.570	20.797	-6.612	1.00	0.00
ATOM	1386	1HH2	ARG	A	92	11.871	22.833	-3.858	1.00	0.00
ATOM	1387	2HH2	ARG	A	92	13.051	22.397	-5.051	1.00	0.00
ATOM	1388	N	ARG	A	93	9.962	15.840	-5.436	1.00	0.00
ATOM	1389	CA	ARG	A	93	11.094	15.030	-5.873	1.00	0.00
ATOM	1390	C	ARG	A	93	10.864	13.555	-5.553	1.00	0.00
ATOM	1391	O	ARG	A	93	11.801	12.830	-5.215	1.00	0.00
ATOM	1392	CB	ARG	A	93	12.385	15.517	-5.210	1.00	0.00
ATOM	1393	CG	ARG	A	93	13.502	15.817	-6.198	1.00	0.00
ATOM	1394	CD	ARG	A	93	14.366	14.592	-6.456	1.00	0.00
ATOM	1395	NE	ARG	A	93	15.783	14.863	-6.224	1.00	0.00
ATOM	1396	CZ	ARG	A	93	16.348	14.872	-5.019	1.00	0.00
ATOM	1397	NH1	ARG	A	93	15.623	14.626	-3.934	1.00	0.00
ATOM	1398	NH2	ARG	A	93	17.644	15.127	-4.898	1.00	0.00
ATOM	1399	H	ARG	A	93	9.432	16.321	-6.106	1.00	0.00
ATOM	1400	HA	ARG	A	93	11.186	15.142	-6.943	1.00	0.00
ATOM	1401	1HB	ARG	A	93	12.173	16.420	-4.656	1.00	0.00
ATOM	1402	2HB	ARG	A	93	12.735	14.759	-4.525	1.00	0.00
ATOM	1403	1HG	ARG	A	93	13.064	16.139	-7.132	1.00	0.00
ATOM	1404	2HG	ARG	A	93	14.120	16.606	-5.798	1.00	0.00

ATOM 1405	1HD	ARG	A	93	14.049	13.796	-5.799	1.00	0.00
ATOM 1406	2HD	ARG	A	93	14.231	14.284	-7.483	1.00	0.00
ATOM 1407	HE	ARG	A	93	16.342	15.049	-7.007	1.00	0.00
ATOM 1408	1HH1	ARG	A	93	14.645	14.434	-4.019	1.00	0.00
ATOM 1409	2HH1	ARG	A	93	16.054	14.634	-3.033	1.00	0.00
ATOM 1410	1HH2	ARG	A	93	18.196	15.313	-5.710	1.00	0.00
ATOM 1411	2HH2	ARG	A	93	18.069	15.133	-3.992	1.00	0.00
ATOM 1412	N	VAL	A	94	9.614	13.119	-5.660	1.00	0.00
ATOM 1413	CA	VAL	A	94	9.262	11.731	-5.382	1.00	0.00
ATOM 1414	C	VAL	A	94	9.046	10.949	-6.673	1.00	0.00
ATOM 1415	O	VAL	A	94	8.214	11.320	-7.502	1.00	0.00
ATOM 1416	CB	VAL	A	94	7.990	11.633	-4.519	1.00	0.00
ATOM 1417	CG1	VAL	A	94	7.765	10.201	-4.059	1.00	0.00
ATOM 1418	CG2	VAL	A	94	8.077	12.576	-3.329	1.00	0.00
ATOM 1419	H	VAL	A	94	8.910	13.744	-5.933	1.00	0.00
ATOM 1420	HA	VAL	A	94	10.079	11.284	-4.834	1.00	0.00
ATOM 1421	HB	VAL	A	94	7.145	11.930	-5.124	1.00	0.00
ATOM 1422	1HG1	VAL	A	94	8.168	10.075	-3.065	1.00	0.00
ATOM 1423	2HG1	VAL	A	94	8.261	9.523	-4.738	1.00	0.00
ATOM 1424	3HG1	VAL	A	94	6.707	9.989	-4.049	1.00	0.00
ATOM 1425	1HG2	VAL	A	94	7.138	12.570	-2.796	1.00	0.00
ATOM 1426	2HG2	VAL	A	94	8.289	13.576	-3.675	1.00	0.00
ATOM 1427	3HG2	VAL	A	94	8.868	12.250	-2.668	1.00	0.00
ATOM 1428	N	ASP	A	95	9.798	9.867	-6.836	1.00	0.00
ATOM 1429	CA	ASP	A	95	9.686	9.031	-8.026	1.00	0.00
ATOM 1430	C	ASP	A	95	8.813	7.810	-7.753	1.00	0.00
ATOM 1431	O	ASP	A	95	8.422	7.558	-6.615	1.00	0.00

ATOM 1432	CB	ASP	A	95	11.073	8.586	-8.495	1.00	0.00
ATOM 1433	CG	ASP	A	95	11.992	9.759	-8.772	1.00	0.00
ATOM 1434	OD1	ASP	A	95	12.756	10.145	-7.862	1.00	0.00
ATOM 1435	OD2	ASP	A	95	11.951	10.291	-9.902	1.00	0.00
ATOM 1436	H	ASP	A	95	10.442	9.621	-6.139	1.00	0.00
ATOM 1437	HA	ASP	A	95	9.226	9.622	-8.804	1.00	0.00
ATOM 1438	1HB	ASP	A	95	11.526	7.972	-7.729	1.00	0.00
ATOM 1439	2HB	ASP	A	95	10.972	8.008	-9.401	1.00	0.00
ATOM 1440	N	ARG	A	96	8.512	7.057	-8.806	1.00	0.00
ATOM 1441	CA	ARG	A	96	7.685	5.863	-8.678	1.00	0.00
ATOM 1442	C	ARG	A	96	8.454	4.740	-7.989	1.00	0.00
ATOM 1443	O	ARG	A	96	7.879	3.948	-7.242	1.00	0.00
ATOM 1444	CB	ARG	A	96	7.205	5.398	-10.055	1.00	0.00
ATOM 1445	CG	ARG	A	96	8.314	5.325	-11.093	1.00	0.00
ATOM 1446	CD	ARG	A	96	7.888	4.516	-12.308	1.00	0.00
ATOM 1447	NE	ARG	A	96	8.284	5.157	-13.559	1.00	0.00
ATOM 1448	CZ	ARG	A	96	7.622	6.169	-14.115	1.00	0.00
ATOM 1449	NH1	ARG	A	96	6.532	6.658	-13.534	1.00	0.00
ATOM 1450	NH2	ARG	A	96	8.049	6.695	-15.255	1.00	0.00
ATOM 1451	H	ARG	A	96	8.854	7.311	-9.689	1.00	0.00
ATOM 1452	HA	ARG	A	96	6.826	6.117	-8.075	1.00	0.00
ATOM 1453	1HB	ARG	A	96	6.767	4.415	-9.958	1.00	0.00
ATOM 1454	2HB	ARG	A	96	6.452	6.085	-10.411	1.00	0.00
ATOM 1455	1HG	ARG	A	96	8.563	6.326	-11.411	1.00	0.00
ATOM 1456	2HG	ARG	A	96	9.181	4.860	-10.647	1.00	0.00
ATOM 1457	1HD	ARG	A	96	8.350	3.540	-12.254	1.00	0.00
ATOM 1458	2HD	ARG	A	96	6.814	4.405	-12.294	1.00	0.00

ATOM	1459	HE	ARG	A	96	9.084	4.816	-14.010	1.00	0.00
ATOM	1460	1HH1	ARG	A	96	6.204	6.266	-12.674	1.00	0.00
ATOM	1461	2HH1	ARG	A	96	6.039	7.418	-13.956	1.00	0.00
ATOM	1462	1HH2	ARG	A	96	8.869	6.331	-15.697	1.00	0.00
ATOM	1463	2HH2	ARG	A	96	7.551	7.455	-15.672	1.00	0.00
ATOM	1464	N	VAL	A	97	9.757	4.680	-8.242	1.00	0.00
ATOM	1465	CA	VAL	A	97	10.605	3.657	-7.645	1.00	0.00
ATOM	1466	C	VAL	A	97	10.715	3.846	-6.135	1.00	0.00
ATOM	1467	O	VAL	A	97	10.900	2.885	-5.391	1.00	0.00
ATOM	1468	CB	VAL	A	97	12.019	3.668	-8.257	1.00	0.00
ATOM	1469	CG1	VAL	A	97	12.841	2.502	-7.731	1.00	0.00
ATOM	1470	CG2	VAL	A	97	11.947	3.634	-9.777	1.00	0.00
ATOM	1471	H	VAL	A	97	10.157	5.341	-8.846	1.00	0.00
ATOM	1472	HA	VAL	A	97	10.157	2.693	-7.846	1.00	0.00
ATOM	1473	HB	VAL	A	97	12.509	4.586	-7.963	1.00	0.00
ATOM	1474	1HG1	VAL	A	97	13.220	2.742	-6.749	1.00	0.00
ATOM	1475	2HG1	VAL	A	97	13.668	2.314	-8.400	1.00	0.00
ATOM	1476	3HG1	VAL	A	97	12.219	1.621	-7.671	1.00	0.00
ATOM	1477	1HG2	VAL	A	97	12.020	2.612	-10.117	1.00	0.00
ATOM	1478	2HG2	VAL	A	97	12.762	4.210	-10.189	1.00	0.00
ATOM	1479	3HG2	VAL	A	97	11.008	4.056	-10.103	1.00	0.00
ATOM	1480	N	ALA	A	98	10.599	5.095	-5.691	1.00	0.00
ATOM	1481	CA	ALA	A	98	10.686	5.412	-4.271	1.00	0.00
ATOM	1482	C	ALA	A	98	9.615	4.677	-3.474	1.00	0.00
ATOM	1483	O	ALA	A	98	9.923	3.886	-2.582	1.00	0.00
ATOM	1484	CB	ALA	A	98	10.567	6.914	-4.060	1.00	0.00
ATOM	1485	H	ALA	A	98	10.454	5.819	-6.335	1.00	0.00

ATOM	1486	HA	ALA	A	98	11.660	5.101	-3.919	1.00	0.00
ATOM	1487	1HB	ALA	A	98	10.811	7.153	-3.036	1.00	0.00
ATOM	1488	2HB	ALA	A	98	9.555	7.226	-4.271	1.00	0.00
ATOM	1489	3HB	ALA	A	98	11.248	7.426	-4.723	1.00	0.00
ATOM	1490	N	ILE	A	99	8.354	4.942	-3.801	1.00	0.00
ATOM	1491	CA	ILE	A	99	7.237	4.303	-3.115	1.00	0.00
ATOM	1492	C	ILE	A	99	7.249	2.793	-3.337	1.00	0.00
ATOM	1493	O	ILE	A	99	6.738	2.033	-2.515	1.00	0.00
ATOM	1494	CB	ILE	A	99	5.883	4.873	-3.584	1.00	0.00
ATOM	1495	CG1	ILE	A	99	5.887	6.401	-3.500	1.00	0.00
ATOM	1496	CG2	ILE	A	99	4.749	4.298	-2.748	1.00	0.00
ATOM	1497	CD1	ILE	A	99	5.004	7.065	-4.532	1.00	0.00
ATOM	1498	H	ILE	A	99	8.171	5.580	-4.523	1.00	0.00
ATOM	1499	HA	ILE	A	99	7.341	4.501	-2.057	1.00	0.00
ATOM	1500	HB	ILE	A	99	5.727	4.576	-4.610	1.00	0.00
ATOM	1501	1HG1	ILE	A	99	5.538	6.701	-2.524	1.00	0.00
ATOM	1502	2HG1	ILE	A	99	6.895	6.761	-3.642	1.00	0.00
ATOM	1503	1HG2	ILE	A	99	5.138	3.952	-1.802	1.00	0.00
ATOM	1504	2HG2	ILE	A	99	4.297	3.471	-3.275	1.00	0.00
ATOM	1505	3HG2	ILE	A	99	4.006	5.063	-2.574	1.00	0.00
ATOM	1506	1HD1	ILE	A	99	5.037	8.136	-4.398	1.00	0.00
ATOM	1507	2HD1	ILE	A	99	3.988	6.719	-4.412	1.00	0.00
ATOM	1508	3HD1	ILE	A	99	5.355	6.815	-5.522	1.00	0.00
ATOM	1509	N	TYR	A	100	7.834	2.368	-4.452	1.00	0.00
ATOM	1510	CA	TYR	A	100	7.912	0.950	-4.781	1.00	0.00
ATOM	1511	C	TYR	A	100	8.921	0.237	-3.887	1.00	0.00
ATOM	1512	O	TYR	A	100	8.648	-0.843	-3.364	1.00	0.00

ATOM 1513	CB	TYR A 100	8.302	0.770	-6.249	1.00	0.00
ATOM 1514	CG	TYR A 100	8.333	-0.673	-6.701	1.00	0.00
ATOM 1515	CD1	TYR A 100	9.538	-1.346	-6.857	1.00	0.00
ATOM 1516	CD2	TYR A 100	7.156	-1.361	-6.971	1.00	0.00
ATOM 1517	CE1	TYR A 100	9.569	-2.664	-7.270	1.00	0.00
ATOM 1518	CE2	TYR A 100	7.180	-2.680	-7.383	1.00	0.00
ATOM 1519	CZ	TYR A 100	8.389	-3.327	-7.531	1.00	0.00
ATOM 1520	OH	TYR A 100	8.417	-4.640	-7.943	1.00	0.00
ATOM 1521	H	TYR A 100	8.223	3.023	-5.068	1.00	0.00
ATOM 1522	HA	TYR A 100	6.936	0.516	-4.622	1.00	0.00
ATOM 1523	1HB	TYR A 100	7.592	1.296	-6.869	1.00	0.00
ATOM 1524	2HB	TYR A 100	9.286	1.188	-6.405	1.00	0.00
ATOM 1525	HD1	TYR A 100	10.461	-0.825	-6.651	1.00	0.00
ATOM 1526	HD2	TYR A 100	6.211	-0.852	-6.854	1.00	0.00
ATOM 1527	HE1	TYR A 100	10.516	-3.171	-7.385	1.00	0.00
ATOM 1528	HE2	TYR A 100	6.255	-3.199	-7.588	1.00	0.00
ATOM 1529	HH	TYR A 100	9.149	-4.770	-8.551	1.00	0.00
ATOM 1530	N	GLU A 101	10.088	0.849	-3.718	1.00	0.00
ATOM 1531	CA	GLU A 101	11.142	0.273	-2.890	1.00	0.00
ATOM 1532	C	GLU A 101	10.720	0.209	-1.424	1.00	0.00
ATOM 1533	O	GLU A 101	10.768	-0.851	-0.800	1.00	0.00
ATOM 1534	CB	GLU A 101	12.428	1.090	-3.027	1.00	0.00
ATOM 1535	CG	GLU A 101	13.325	0.625	-4.163	1.00	0.00
ATOM 1536	CD	GLU A 101	14.796	0.864	-3.879	1.00	0.00
ATOM 1537	OE1	GLU A 101	15.532	1.225	-4.822	1.00	0.00
ATOM 1538	OE2	GLU A 101	15.212	0.690	-2.714	1.00	0.00
ATOM 1539	H	GLU A 101	10.244	1.708	-4.164	1.00	0.00

ATOM	1540	HA	GLU A 101	11.326	-0.730	-3.242	1.00	0.00
ATOM	1541	1HB	GLU A 101	12.168	2.123	-3.203	1.00	0.00
ATOM	1542	2HB	GLU A 101	12.985	1.020	-2.105	1.00	0.00
ATOM	1543	1HG	GLU A 101	13.172	-0.432	-4.317	1.00	0.00
ATOM	1544	2HG	GLU A 101	13.055	1.163	-5.060	1.00	0.00
ATOM	1545	N	GLU A 102	10.312	1.351	-0.879	1.00	0.00
ATOM	1546	CA	GLU A 102	9.889	1.424	0.516	1.00	0.00
ATOM	1547	C	GLU A 102	8.717	0.486	0.789	1.00	0.00
ATOM	1548	O	GLU A 102	8.549	-0.002	1.906	1.00	0.00
ATOM	1549	CB	GLU A 102	9.501	2.858	0.878	1.00	0.00
ATOM	1550	CG	GLU A 102	8.342	3.402	0.057	1.00	0.00
ATOM	1551	CD	GLU A 102	7.003	3.215	0.744	1.00	0.00
ATOM	1552	OE1	GLU A 102	6.350	2.178	0.501	1.00	0.00
ATOM	1553	OE2	GLU A 102	6.608	4.106	1.525	1.00	0.00
ATOM	1554	H	GLU A 102	10.300	2.164	-1.426	1.00	0.00
ATOM	1555	HA	GLU A 102	10.724	1.123	1.130	1.00	0.00
ATOM	1556	1HB	GLU A 102	9.221	2.890	1.920	1.00	0.00
ATOM	1557	2HB	GLU A 102	10.355	3.500	0.724	1.00	0.00
ATOM	1558	1HG	GLU A 102	8.500	4.457	-0.108	1.00	0.00
ATOM	1559	2HG	GLU A 102	8.318	2.887	-0.893	1.00	0.00
ATOM	1560	N	PHE A 103	7.906	0.239	-0.236	1.00	0.00
ATOM	1561	CA	PHE A 103	6.749	-0.637	-0.098	1.00	0.00
ATOM	1562	C	PHE A 103	7.171	-2.102	-0.053	1.00	0.00
ATOM	1563	O	PHE A 103	6.526	-2.925	0.597	1.00	0.00
ATOM	1564	CB	PHE A 103	5.772	-0.412	-1.253	1.00	0.00
ATOM	1565	CG	PHE A 103	4.499	-1.199	-1.126	1.00	0.00
ATOM	1566	CD1	PHE A 103	3.691	-1.057	-0.009	1.00	0.00

ATOM 1567	CD2	PHE A 103	4.111	-2.080	-2.123	1.00	0.00
ATOM 1568	CE1	PHE A 103	2.519	-1.780	0.110	1.00	0.00
ATOM 1569	CE2	PHE A 103	2.940	-2.806	-2.008	1.00	0.00
ATOM 1570	CZ	PHE A 103	2.143	-2.654	-0.890	1.00	0.00
ATOM 1571	H	PHE A 103	8.088	0.659	-1.102	1.00	0.00
ATOM 1572	HA	PHE A 103	6.256	-0.389	0.831	1.00	0.00
ATOM 1573	1HB	PHE A 103	5.511	0.635	-1.295	1.00	0.00
ATOM 1574	2HB	PHE A 103	6.249	-0.697	-2.180	1.00	0.00
ATOM 1575	HD1	PHE A 103	3.983	-0.373	0.774	1.00	0.00
ATOM 1576	HD2	PHE A 103	4.734	-2.199	-2.997	1.00	0.00
ATOM 1577	HE1	PHE A 103	1.897	-1.660	0.986	1.00	0.00
ATOM 1578	HE2	PHE A 103	2.649	-3.490	-2.792	1.00	0.00
ATOM 1579	HZ	PHE A 103	1.228	-3.220	-0.799	1.00	0.00
ATOM 1580	N	LEU A 104	8.257	-2.423	-0.748	1.00	0.00
ATOM 1581	CA	LEU A 104	8.763	-3.792	-0.789	1.00	0.00
ATOM 1582	C	LEU A 104	9.557	-4.122	0.472	1.00	0.00
ATOM 1583	O	LEU A 104	9.608	-5.275	0.899	1.00	0.00
ATOM 1584	CB	LEU A 104	9.641	-3.995	-2.025	1.00	0.00
ATOM 1585	CG	LEU A 104	8.907	-3.913	-3.364	1.00	0.00
ATOM 1586	CD1	LEU A 104	9.898	-3.784	-4.509	1.00	0.00
ATOM 1587	CD2	LEU A 104	8.018	-5.132	-3.560	1.00	0.00
ATOM 1588	H	LEU A 104	8.729	-1.724	-1.248	1.00	0.00
ATOM 1589	HA	LEU A 104	7.914	-4.455	-0.849	1.00	0.00
ATOM 1590	1HB	LEU A 104	10.418	-3.244	-2.017	1.00	0.00
ATOM 1591	2HB	LEU A 104	10.103	-4.969	-1.955	1.00	0.00
ATOM 1592	HG	LEU A 104	8.277	-3.035	-3.368	1.00	0.00
ATOM 1593	1HD1	LEU A 104	10.044	-2.740	-4.744	1.00	0.00



ATOM	1594	2HD1	LEU	A	104	9.514	-4.298	-5.378	1.00	0.00
ATOM	1595	3HD1	LEU	A	104	10.841	-4.222	-4.220	1.00	0.00
ATOM	1596	1HD2	LEU	A	104	7.446	-5.310	-2.662	1.00	0.00
ATOM	1597	2HD2	LEU	A	104	8.631	-5.994	-3.774	1.00	0.00
ATOM	1598	3HD2	LEU	A	104	7.344	-4.956	-4.386	1.00	0.00
ATOM	1599	N	ARG	A	105	10.179	-3.106	1.060	1.00	0.00
ATOM	1600	CA	ARG	A	105	10.975	-3.293	2.268	1.00	0.00
ATOM	1601	C	ARG	A	105	10.089	-3.626	3.465	1.00	0.00
ATOM	1602	O	ARG	A	105	10.473	-4.410	4.335	1.00	0.00
ATOM	1603	CB	ARG	A	105	11.795	-2.037	2.564	1.00	0.00
ATOM	1604	CG	ARG	A	105	13.055	-2.309	3.371	1.00	0.00
ATOM	1605	CD	ARG	A	105	13.808	-1.026	3.683	1.00	0.00
ATOM	1606	NE	ARG	A	105	14.158	-0.926	5.099	1.00	0.00
ATOM	1607	CZ	ARG	A	105	13.303	-0.557	6.049	1.00	0.00
ATOM	1608	NH1	ARG	A	105	12.047	-0.259	5.741	1.00	0.00
ATOM	1609	NH2	ARG	A	105	13.704	-0.489	7.311	1.00	0.00
ATOM	1610	H	ARG	A	105	10.104	-2.209	0.672	1.00	0.00
ATOM	1611	HA	ARG	A	105	11.648	-4.118	2.095	1.00	0.00
ATOM	1612	1HB	ARG	A	105	12.084	-1.581	1.629	1.00	0.00
ATOM	1613	2HB	ARG	A	105	11.183	-1.341	3.119	1.00	0.00
ATOM	1614	1HG	ARG	A	105	12.780	-2.787	4.299	1.00	0.00
ATOM	1615	2HG	ARG	A	105	13.699	-2.965	2.803	1.00	0.00
ATOM	1616	1HD	ARG	A	105	14.715	-1.004	3.096	1.00	0.00
ATOM	1617	2HD	ARG	A	105	13.188	-0.183	3.415	1.00	0.00
ATOM	1618	HE	ARG	A	105	15.079	-1.145	5.354	1.00	0.00
ATOM	1619	1HH1	ARG	A	105	11.738	-0.309	4.792	1.00	0.00
ATOM	1620	2HH1	ARG	A	105	11.409	0.018	6.460	1.00	0.00

ATOM 1621	1HH2	ARG	A	105	14.649	-0.714	7.548	1.00	0.00
ATOM 1622	2HH2	ARG	A	105	13.061	-0.211	8.026	1.00	0.00
ATOM 1623	N	MET	A	106	8.904	-3.027	3.508	1.00	0.00
ATOM 1624	CA	MET	A	106	7.969	-3.261	4.603	1.00	0.00
ATOM 1625	C	MET	A	106	7.129	-4.511	4.357	1.00	0.00
ATOM 1626	O	MET	A	106	6.613	-5.117	5.296	1.00	0.00
ATOM 1627	CB	MET	A	106	7.055	-2.050	4.790	1.00	0.00
ATOM 1628	CG	MET	A	106	6.456	-1.956	6.184	1.00	0.00
ATOM 1629	SD	MET	A	106	7.259	-0.705	7.205	1.00	0.00
ATOM 1630	CE	MET	A	106	7.091	0.742	6.162	1.00	0.00
ATOM 1631	H	MET	A	106	8.653	-2.410	2.789	1.00	0.00
ATOM 1632	HA	MET	A	106	8.545	-3.405	5.504	1.00	0.00
ATOM 1633	1HB	MET	A	106	7.625	-1.151	4.603	1.00	0.00
ATOM 1634	2HB	MET	A	106	6.246	-2.109	4.078	1.00	0.00
ATOM 1635	1HG	MET	A	106	5.410	-1.708	6.095	1.00	0.00
ATOM 1636	2HG	MET	A	106	6.557	-2.915	6.669	1.00	0.00
ATOM 1637	1HE	MET	A	106	6.326	0.565	5.422	1.00	0.00
ATOM 1638	2HE	MET	A	106	8.031	0.942	5.669	1.00	0.00
ATOM 1639	3HE	MET	A	106	6.814	1.592	6.769	1.00	0.00
ATOM 1640	N	THR	A	107	6.991	-4.894	3.090	1.00	0.00
ATOM 1641	CA	THR	A	107	6.209	-6.071	2.731	1.00	0.00
ATOM 1642	C	THR	A	107	7.098	-7.305	2.586	1.00	0.00
ATOM 1643	O	THR	A	107	6.731	-8.269	1.915	1.00	0.00
ATOM 1644	CB	THR	A	107	5.447	-5.822	1.428	1.00	0.00
ATOM 1645	OG1	THR	A	107	6.325	-5.386	0.406	1.00	0.00
ATOM 1646	CG2	THR	A	107	4.355	-4.783	1.567	1.00	0.00
ATOM 1647	H	THR	A	107	7.423	-4.372	2.382	1.00	0.00

ATOM 1648	HA	THR A 107	5.498	-6.248	3.523	1.00	0.00
ATOM 1649	HB	THR A 107	4.985	-6.745	1.110	1.00	0.00
ATOM 1650	HG1	THR A 107	7.142	-5.886	0.450	1.00	0.00
ATOM 1651	1HG2	THR A 107	3.398	-5.275	1.654	1.00	0.00
ATOM 1652	2HG2	THR A 107	4.354	-4.145	0.696	1.00	0.00
ATOM 1653	3HG2	THR A 107	4.535	-4.187	2.449	1.00	0.00
ATOM 1654	N	HIS A 108	8.267	-7.273	3.225	1.00	0.00
ATOM 1655	CA	HIS A 108	9.204	-8.393	3.169	1.00	0.00
ATOM 1656	C	HIS A 108	9.483	-8.807	1.726	1.00	0.00
ATOM 1657	O	HIS A 108	8.900	-9.765	1.220	1.00	0.00
ATOM 1658	CB	HIS A 108	8.650	-9.584	3.955	1.00	0.00
ATOM 1659	CG	HIS A 108	9.261	-9.739	5.314	1.00	0.00
ATOM 1660	ND1	HIS A 108	10.073	-10.799	5.657	1.00	0.00
ATOM 1661	CD2	HIS A 108	9.173	-8.961	6.419	1.00	0.00
ATOM 1662	CE1	HIS A 108	10.459	-10.666	6.915	1.00	0.00
ATOM 1663	NE2	HIS A 108	9.926	-9.560	7.399	1.00	0.00
ATOM 1664	H	HIS A 108	8.504	-6.481	3.748	1.00	0.00
ATOM 1665	HA	HIS A 108	10.128	-8.073	3.623	1.00	0.00
ATOM 1666	1HB	HIS A 108	7.586	-9.459	4.083	1.00	0.00
ATOM 1667	2HB	HIS A 108	8.837	-10.493	3.401	1.00	0.00
ATOM 1668	HD1	HIS A 108	10.330	-11.538	5.068	1.00	0.00
ATOM 1669	HD2	HIS A 108	8.614	-8.041	6.513	1.00	0.00
ATOM 1670	HE1	HIS A 108	11.101	-11.347	7.454	1.00	0.00
ATOM 1671	HE2	HIS A 108	9.982	-9.268	8.333	1.00	0.00
ATOM 1672	N	ASN A 109	10.383	-8.079	1.069	1.00	0.00
ATOM 1673	CA	ASN A 109	10.742	-8.373	-0.315	1.00	0.00
ATOM 1674	C	ASN A 109	9.502	-8.432	-1.204	1.00	0.00

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ATOM 1675	O	ASN A 109	9.490	-9.117	-2.226	1.00	0.00
ATOM 1676	CB	ASN A 109	11.504	-9.697	-0.396	1.00	0.00
ATOM 1677	CG	ASN A 109	12.486	-9.729	-1.551	1.00	0.00
ATOM 1678	OD1	ASN A 109	12.571	-8.786	-2.337	1.00	0.00
ATOM 1679	ND2	ASN A 109	13.235	-10.821	-1.660	1.00	0.00
ATOM 1680	H	ASN A 109	10.816	-7.329	1.526	1.00	0.00
ATOM 1681	HA	ASN A 109	11.383	-7.578	-0.666	1.00	0.00
ATOM 1682	1HB	ASN A 109	12.052	-9.847	0.521	1.00	0.00
ATOM 1683	2HB	ASN A 109	10.797	-10.504	-0.525	1.00	0.00
ATOM 1684	1HD2	ASN A 109	13.113	-11.534	-0.998	1.00	0.00
ATOM 1685	2HD2	ASN A 109	13.878	-10.869	-2.397	1.00	0.00
ATOM 1686	N	GLY A 110	8.459	-7.709	-0.805	1.00	0.00
ATOM 1687	CA	GLY A 110	7.230	-7.694	-1.575	1.00	0.00
ATOM 1688	C	GLY A 110	6.594	-9.066	-1.679	1.00	0.00
ATOM 1689	O	GLY A 110	6.695	-9.726	-2.712	1.00	0.00
ATOM 1690	H	GLY A 110	8.526	-7.183	0.018	1.00	0.00
ATOM 1691	1HA	GLY A 110	6.530	-7.021	-1.102	1.00	0.00
ATOM 1692	2HA	GLY A 110	7.444	-7.334	-2.569	1.00	0.00
ATOM 1693	N	THR A 111	5.940	-9.497	-0.604	1.00	0.00
ATOM 1694	CA	THR A 111	5.290	-10.802	-0.582	1.00	0.00
ATOM 1695	C	THR A 111	4.175	-10.844	0.460	1.00	0.00
ATOM 1696	O	THR A 111	3.089	-11.361	0.200	1.00	0.00
ATOM 1697	CB	THR A 111	6.313	-11.900	-0.290	1.00	0.00
ATOM 1698	OG1	THR A 111	6.887	-11.725	0.993	1.00	0.00
ATOM 1699	CG2	THR A 111	7.443	-11.947	-1.296	1.00	0.00
ATOM 1700	H	THR A 111	5.896	-8.926	0.190	1.00	0.00
ATOM 1701	HA	THR A 111	4.860	-10.974	-1.557	1.00	0.00

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ATOM 1702	HB	THR A 111	5.813	-12.858	-0.310	1.00	0.00
ATOM 1703	HG1	THR A 111	6.359	-12.188	1.646	1.00	0.00
ATOM 1704	1HG2	THR A 111	8.048	-12.824	-1.118	1.00	0.00
ATOM 1705	2HG2	THR A 111	8.053	-11.062	-1.194	1.00	0.00
ATOM 1706	3HG2	THR A 111	7.035	-11.989	-2.295	1.00	0.00
ATOM 1707	N	GLN A 112	4.452	-10.304	1.643	1.00	0.00
ATOM 1708	CA	GLN A 112	3.469	-10.290	2.720	1.00	0.00
ATOM 1709	C	GLN A 112	3.236	-8.873	3.236	1.00	0.00
ATOM 1710	O	GLN A 112	4.019	-8.354	4.031	1.00	0.00
ATOM 1711	CB	GLN A 112	3.928	-11.192	3.867	1.00	0.00
ATOM 1712	CG	GLN A 112	2.842	-11.467	4.895	1.00	0.00
ATOM 1713	CD	GLN A 112	3.405	-11.798	6.263	1.00	0.00
ATOM 1714	OE1	GLN A 112	4.620	-11.893	6.441	1.00	0.00
ATOM 1715	NE2	GLN A 112	2.522	-11.975	7.239	1.00	0.00
ATOM 1716	H	GLN A 112	5.337	-9.911	1.796	1.00	0.00
ATOM 1717	HA	GLN A 112	2.541	-10.671	2.325	1.00	0.00
ATOM 1718	1HB	GLN A 112	4.254	-12.136	3.459	1.00	0.00
ATOM 1719	2HB	GLN A 112	4.759	-10.720	4.371	1.00	0.00
ATOM 1720	1HG	GLN A 112	2.216	-10.591	4.982	1.00	0.00
ATOM 1721	2HG	GLN A 112	2.246	-12.301	4.555	1.00	0.00
ATOM 1722	1HE2	GLN A 112	1.570	-11.883	7.024	1.00	0.00
ATOM 1723	2HE2	GLN A 112	2.858	-12.189	8.134	1.00	0.00
ATOM 1724	N	LEU A 113	2.148	-8.257	2.785	1.00	0.00
ATOM 1725	CA	LEU A 113	1.806	-6.904	3.208	1.00	0.00
ATOM 1726	C	LEU A 113	1.223	-6.918	4.618	1.00	0.00
ATOM 1727	O	LEU A 113	0.012	-7.046	4.799	1.00	0.00
ATOM 1728	CB	LEU A 113	0.808	-6.276	2.228	1.00	0.00

ATOM 1729	CG	LEU A 113	0.345	-4.849	2.559	1.00	0.00
ATOM 1730	CD1	LEU A 113	-0.877	-4.879	3.462	1.00	0.00
ATOM 1731	CD2	LEU A 113	1.466	-4.042	3.201	1.00	0.00
ATOM 1732	H	LEU A 113	1.559	-8.724	2.156	1.00	0.00
ATOM 1733	HA	LEU A 113	2.712	-6.317	3.212	1.00	0.00
ATOM 1734	1HB	LEU A 113	1.264	-6.262	1.248	1.00	0.00
ATOM 1735	2HB	LEU A 113	-0.065	-6.910	2.185	1.00	0.00
ATOM 1736	HG	LEU A 113	0.062	-4.353	1.642	1.00	0.00
ATOM 1737	1HD1	LEU A 113	-1.338	-5.854	3.415	1.00	0.00
ATOM 1738	2HD1	LEU A 113	-1.584	-4.131	3.135	1.00	0.00
ATOM 1739	3HD1	LEU A 113	-0.579	-4.671	4.480	1.00	0.00
ATOM 1740	1HD2	LEU A 113	1.077	-3.092	3.538	1.00	0.00
ATOM 1741	2HD2	LEU A 113	2.249	-3.872	2.477	1.00	0.00
ATOM 1742	3HD2	LEU A 113	1.867	-4.585	4.044	1.00	0.00
ATOM 1743	N	LEU A 114	2.097	-6.797	5.613	1.00	0.00
ATOM 1744	CA	LEU A 114	1.677	-6.801	7.011	1.00	0.00
ATOM 1745	C	LEU A 114	1.020	-8.129	7.377	1.00	0.00
ATOM 1746	O	LEU A 114	1.651	-9.000	7.976	1.00	0.00
ATOM 1747	CB	LEU A 114	0.714	-5.643	7.284	1.00	0.00
ATOM 1748	CG	LEU A 114	1.356	-4.256	7.284	1.00	0.00
ATOM 1749	CD1	LEU A 114	0.291	-3.175	7.381	1.00	0.00
ATOM 1750	CD2	LEU A 114	2.353	-4.130	8.427	1.00	0.00
ATOM 1751	H	LEU A 114	3.049	-6.704	5.402	1.00	0.00
ATOM 1752	HA	LEU A 114	2.559	-6.673	7.620	1.00	0.00
ATOM 1753	1HB	LEU A 114	-0.060	-5.659	6.530	1.00	0.00
ATOM 1754	2HB	LEU A 114	0.256	-5.803	8.249	1.00	0.00
ATOM 1755	HG	LEU A 114	1.890	-4.115	6.355	1.00	0.00

ATOM 1756	1HD1	LEU	A	114	0.687	-2.328	7.921	1.00	0.00
ATOM 1757	2HD1	LEU	A	114	-0.570	-3.565	7.903	1.00	0.00
ATOM 1758	3HD1	LEU	A	114	0.001	-2.866	6.388	1.00	0.00
ATOM 1759	1HD2	LEU	A	114	2.807	-3.152	8.402	1.00	0.00
ATOM 1760	2HD2	LEU	A	114	3.117	-4.886	8.321	1.00	0.00
ATOM 1761	3HD2	LEU	A	114	1.840	-4.266	9.368	1.00	0.00
ATOM 1762	N	ASN	A	115	-0.251	-8.278	7.014	1.00	0.00
ATOM 1763	CA	ASN	A	115	-0.991	-9.501	7.306	1.00	0.00
ATOM 1764	C	ASN	A	115	-1.432	-10.194	6.017	1.00	0.00
ATOM 1765	O	ASN	A	115	-1.474	-11.422	5.946	1.00	0.00
ATOM 1766	CB	ASN	A	115	-2.211	-9.187	8.175	1.00	0.00
ATOM 1767	CG	ASN	A	115	-2.334	-10.126	9.358	1.00	0.00
ATOM 1768	OD1	ASN	A	115	-2.011	-11.310	9.262	1.00	0.00
ATOM 1769	ND2	ASN	A	115	-2.803	-9.601	10.485	1.00	0.00
ATOM 1770	H	ASN	A	115	-0.700	-7.548	6.540	1.00	0.00
ATOM 1771	HA	ASN	A	115	-0.335	-10.163	7.849	1.00	0.00
ATOM 1772	1HB	ASN	A	115	-2.129	-8.177	8.548	1.00	0.00
ATOM 1773	2HB	ASN	A	115	-3.106	-9.273	7.576	1.00	0.00
ATOM 1774	1HD2	ASN	A	115	-3.040	-8.651	10.489	1.00	0.00
ATOM 1775	2HD2	ASN	A	115	-2.892	-10.186	11.266	1.00	0.00
ATOM 1776	N	PHE	A	116	-1.760	-9.399	5.004	1.00	0.00
ATOM 1777	CA	PHE	A	116	-2.198	-9.937	3.721	1.00	0.00
ATOM 1778	C	PHE	A	116	-1.007	-10.375	2.874	1.00	0.00
ATOM 1779	O	PHE	A	116	-0.052	-9.621	2.690	1.00	0.00
ATOM 1780	CB	PHE	A	116	-3.017	-8.891	2.961	1.00	0.00
ATOM 1781	CG	PHE	A	116	-4.395	-8.682	3.522	1.00	0.00
ATOM 1782	CD1	PHE	A	116	-4.582	-7.927	4.669	1.00	0.00

ATOM 1783	CD2	PHE A 116	-5.503	-9.236	2.902	1.00	0.00
ATOM 1784	CE1	PHE A 116	-5.848	-7.731	5.188	1.00	0.00
ATOM 1785	CE2	PHE A 116	-6.771	-9.044	3.415	1.00	0.00
ATOM 1786	CZ	PHE A 116	-6.944	-8.290	4.560	1.00	0.00
ATOM 1787	H	PHE A 116	-1.707	-8.428	5.121	1.00	0.00
ATOM 1788	HA	PHE A 116	-2.822	-10.796	3.917	1.00	0.00
ATOM 1789	1HB	PHE A 116	-2.499	-7.944	2.993	1.00	0.00
ATOM 1790	2HB	PHE A 116	-3.120	-9.203	1.932	1.00	0.00
ATOM 1791	HD1	PHE A 116	-3.725	-7.488	5.161	1.00	0.00
ATOM 1792	HD2	PHE A 116	-5.369	-9.826	2.007	1.00	0.00
ATOM 1793	HE1	PHE A 116	-5.980	-7.141	6.083	1.00	0.00
ATOM 1794	HE2	PHE A 116	-7.626	-9.483	2.923	1.00	0.00
ATOM 1795	HZ	PHE A 116	-7.933	-8.138	4.964	1.00	0.00
ATOM 1796	N	THR A 117	-1.074	-11.597	2.357	1.00	0.00
ATOM 1797	CA	THR A 117	-0.003	-12.134	1.525	1.00	0.00
ATOM 1798	C	THR A 117	-0.291	-11.882	0.048	1.00	0.00
ATOM 1799	O	THR A 117	-1.263	-12.400	-0.501	1.00	0.00
ATOM 1800	CB	THR A 117	0.166	-13.633	1.775	1.00	0.00
ATOM 1801	OG1	THR A 117	-1.084	-14.296	1.715	1.00	0.00
ATOM 1802	CG2	THR A 117	0.789	-13.948	3.118	1.00	0.00
ATOM 1803	H	THR A 117	-1.863	-12.150	2.535	1.00	0.00
ATOM 1804	HA	THR A 117	0.911	-11.626	1.792	1.00	0.00
ATOM 1805	HB	THR A 117	0.807	-14.045	1.008	1.00	0.00
ATOM 1806	HG1	THR A 117	-1.006	-15.076	1.162	1.00	0.00
ATOM 1807	1HG2	THR A 117	1.864	-13.969	3.020	1.00	0.00
ATOM 1808	2HG2	THR A 117	0.440	-14.912	3.459	1.00	0.00
ATOM 1809	3HG2	THR A 117	0.507	-13.190	3.833	1.00	0.00



ATOM 1810	N	LEU A 118	0.554	-11.079	-0.590	1.00	0.00
ATOM 1811	CA	LEU A 118	0.380	-10.758	-2.002	1.00	0.00
ATOM 1812	C	LEU A 118	1.643	-11.070	-2.799	1.00	0.00
ATOM 1813	O	LEU A 118	2.732	-11.189	-2.238	1.00	0.00
ATOM 1814	CB	LEU A 118	0.000	-9.286	-2.167	1.00	0.00
ATOM 1815	CG	LEU A 118	0.930	-8.290	-1.471	1.00	0.00
ATOM 1816	CD1	LEU A 118	2.049	-7.858	-2.407	1.00	0.00
ATOM 1817	CD2	LEU A 118	0.143	-7.085	-0.979	1.00	0.00
ATOM 1818	H	LEU A 118	1.309	-10.691	-0.100	1.00	0.00
ATOM 1819	HA	LEU A 118	-0.424	-11.369	-2.380	1.00	0.00
ATOM 1820	1HB	LEU A 118	-0.015	-9.056	-3.222	1.00	0.00
ATOM 1821	2HB	LEU A 118	-0.996	-9.148	-1.772	1.00	0.00
ATOM 1822	HG	LEU A 118	1.380	-8.768	-0.615	1.00	0.00
ATOM 1823	1HD1	LEU A 118	2.967	-8.348	-2.119	1.00	0.00
ATOM 1824	2HD1	LEU A 118	2.178	-6.787	-2.344	1.00	0.00
ATOM 1825	3HD1	LEU A 118	1.797	-8.131	-3.421	1.00	0.00
ATOM 1826	1HD2	LEU A 118	-0.059	-7.196	0.076	1.00	0.00
ATOM 1827	2HD2	LEU A 118	-0.789	-7.021	-1.519	1.00	0.00
ATOM 1828	3HD2	LEU A 118	0.719	-6.186	-1.143	1.00	0.00
ATOM 1829	N	ASP A 119	1.484	-11.207	-4.111	1.00	0.00
ATOM 1830	CA	ASP A 119	2.606	-11.514	-4.991	1.00	0.00
ATOM 1831	C	ASP A 119	3.571	-10.337	-5.086	1.00	0.00
ATOM 1832	O	ASP A 119	3.453	-9.361	-4.343	1.00	0.00
ATOM 1833	CB	ASP A 119	2.098	-11.884	-6.387	1.00	0.00
ATOM 1834	CG	ASP A 119	2.881	-13.028	-7.002	1.00	0.00
ATOM 1835	OD1	ASP A 119	3.751	-12.759	-7.857	1.00	0.00
ATOM 1836	OD2	ASP A 119	2.623	-14.192	-6.628	1.00	0.00

ATOM 1837	H	ASP A 119	0.589	-11.103	-4.496	1.00	0.00
ATOM 1838	HA	ASP A 119	3.131	-12.360	-4.575	1.00	0.00
ATOM 1839	1HB	ASP A 119	1.061	-12.177	-6.320	1.00	0.00
ATOM 1840	2HB	ASP A 119	2.183	-11.024	-7.035	1.00	0.00
ATOM 1841	N	ARG A 120	4.526	-10.437	-6.005	1.00	0.00
ATOM 1842	CA	ARG A 120	5.517	-9.385	-6.201	1.00	0.00
ATOM 1843	C	ARG A 120	5.472	-8.857	-7.631	1.00	0.00
ATOM 1844	O	ARG A 120	5.526	-7.648	-7.859	1.00	0.00
ATOM 1845	CB	ARG A 120	6.917	-9.912	-5.884	1.00	0.00
ATOM 1846	CG	ARG A 120	8.011	-8.867	-6.036	1.00	0.00
ATOM 1847	CD	ARG A 120	9.350	-9.503	-6.372	1.00	0.00
ATOM 1848	NE	ARG A 120	9.736	-9.265	-7.762	1.00	0.00
ATOM 1849	CZ	ARG A 120	10.646	-9.985	-8.413	1.00	0.00
ATOM 1850	NH1	ARG A 120	11.266	-10.990	-7.806	1.00	0.00
ATOM 1851	NH2	ARG A 120	10.938	-9.700	-9.674	1.00	0.00
ATOM 1852	H	ARG A 120	4.567	-11.240	-6.564	1.00	0.00
ATOM 1853	HA	ARG A 120	5.283	-8.578	-5.524	1.00	0.00
ATOM 1854	1HB	ARG A 120	6.933	-10.273	-4.867	1.00	0.00
ATOM 1855	2HB	ARG A 120	7.140	-10.732	-6.551	1.00	0.00
ATOM 1856	1HG	ARG A 120	7.737	-8.186	-6.829	1.00	0.00
ATOM 1857	2HG	ARG A 120	8.104	-8.321	-5.108	1.00	0.00
ATOM 1858	1HD	ARG A 120	10.105	-9.087	-5.723	1.00	0.00
ATOM 1859	2HD	ARG A 120	9.281	-10.568	-6.206	1.00	0.00
ATOM 1860	HE	ARG A 120	9.293	-8.528	-8.233	1.00	0.00
ATOM 1861	1HH1	ARG A 120	11.051	-11.210	-6.855	1.00	0.00
ATOM 1862	2HH1	ARG A 120	11.949	-11.527	-8.302	1.00	0.00
ATOM 1863	1HH2	ARG A 120	10.473	-8.944	-10.136	1.00	0.00

ATOM	1864	2HH2	ARG	A	120	11.621	-10.241	-10.164	1.00	0.00
ATOM	1865	N	LYS	A	121	5.373	-9.771	-8.591	1.00	0.00
ATOM	1866	CA	LYS	A	121	5.321	-9.399	-10.001	1.00	0.00
ATOM	1867	C	LYS	A	121	4.152	-8.458	-10.273	1.00	0.00
ATOM	1868	O	LYS	A	121	4.274	-7.507	-11.045	1.00	0.00
ATOM	1869	CB	LYS	A	121	5.200	-10.649	-10.875	1.00	0.00
ATOM	1870	CG	LYS	A	121	6.509	-11.401	-11.046	1.00	0.00
ATOM	1871	CD	LYS	A	121	6.614	-12.566	-10.075	1.00	0.00
ATOM	1872	CE	LYS	A	121	8.009	-12.669	-9.477	1.00	0.00
ATOM	1873	NZ	LYS	A	121	9.060	-12.783	-10.526	1.00	0.00
ATOM	1874	H	LYS	A	121	5.333	-10.720	-8.346	1.00	0.00
ATOM	1875	HA	LYS	A	121	6.242	-8.890	-10.242	1.00	0.00
ATOM	1876	1HB	LYS	A	121	4.479	-11.318	-10.428	1.00	0.00
ATOM	1877	2HB	LYS	A	121	4.846	-10.356	-11.854	1.00	0.00
ATOM	1878	1HG	LYS	A	121	6.565	-11.781	-12.055	1.00	0.00
ATOM	1879	2HG	LYS	A	121	7.329	-10.720	-10.870	1.00	0.00
ATOM	1880	1HD	LYS	A	121	5.901	-12.423	-9.277	1.00	0.00
ATOM	1881	2HD	LYS	A	121	6.389	-13.482	-10.600	1.00	0.00
ATOM	1882	1HE	LYS	A	121	8.198	-11.785	-8.885	1.00	0.00
ATOM	1883	2HE	LYS	A	121	8.049	-13.542	-8.842	1.00	0.00
ATOM	1884	1HZ	LYS	A	121	8.645	-12.632	-11.468	1.00	0.00
ATOM	1885	2HZ	LYS	A	121	9.492	-13.728	-10.498	1.00	0.00
ATOM	1886	3HZ	LYS	A	121	9.801	-12.070	-10.367	1.00	0.00
ATOM	1887	N	SER	A	122	3.019	-8.730	-9.633	1.00	0.00
ATOM	1888	CA	SER	A	122	1.828	-7.905	-9.806	1.00	0.00
ATOM	1889	C	SER	A	122	2.057	-6.499	-9.262	1.00	0.00
ATOM	1890	O	SER	A	122	1.468	-5.533	-9.746	1.00	0.00

ATOM 1891	CB	SER A 122	0.632	-8.549	-9.103	1.00	0.00
ATOM 1892	OG	SER A 122	0.660	-8.293	-7.709	1.00	0.00
ATOM 1893	H	SER A 122	2.983	-9.501	-9.030	1.00	0.00
ATOM 1894	HA	SER A 122	1.620	-7.840	-10.864	1.00	0.00
ATOM 1895	1HB	SER A 122	-0.283	-8.146	-9.511	1.00	0.00
ATOM 1896	2HB	SER A 122	0.656	-9.617	-9.260	1.00	0.00
ATOM 1897	HG	SER A 122	1.479	-8.627	-7.339	1.00	0.00
ATOM 1898	N	VAL A 123	2.915	-6.392	-8.253	1.00	0.00
ATOM 1899	CA	VAL A 123	3.222	-5.104	-7.644	1.00	0.00
ATOM 1900	C	VAL A 123	3.897	-4.170	-8.642	1.00	0.00
ATOM 1901	O	VAL A 123	4.862	-4.548	-9.306	1.00	0.00
ATOM 1902	CB	VAL A 123	4.135	-5.265	-6.412	1.00	0.00
ATOM 1903	CG1	VAL A 123	4.249	-3.951	-5.655	1.00	0.00
ATOM 1904	CG2	VAL A 123	3.615	-6.369	-5.503	1.00	0.00
ATOM 1905	H	VAL A 123	3.354	-7.199	-7.910	1.00	0.00
ATOM 1906	HA	VAL A 123	2.292	-4.658	-7.321	1.00	0.00
ATOM 1907	HB	VAL A 123	5.120	-5.545	-6.755	1.00	0.00
ATOM 1908	1HG1	VAL A 123	5.158	-3.446	-5.946	1.00	0.00
ATOM 1909	2HG1	VAL A 123	4.269	-4.147	-4.594	1.00	0.00
ATOM 1910	3HG1	VAL A 123	3.400	-3.326	-5.890	1.00	0.00
ATOM 1911	1HG2	VAL A 123	3.785	-7.329	-5.970	1.00	0.00
ATOM 1912	2HG2	VAL A 123	2.558	-6.232	-5.338	1.00	0.00
ATOM 1913	3HG2	VAL A 123	4.135	-6.332	-4.558	1.00	0.00
ATOM 1914	N	PHE A 124	3.381	-2.950	-8.744	1.00	0.00
ATOM 1915	CA	PHE A 124	3.934	-1.960	-9.662	1.00	0.00
ATOM 1916	C	PHE A 124	3.253	-0.608	-9.471	1.00	0.00
ATOM 1917	O	PHE A 124	2.026	-0.510	-9.507	1.00	0.00

ATOM	1918	CB	PHE A 124	3.770	-2.427	-11.109	1.00	0.00
ATOM	1919	CG	PHE A 124	4.573	-1.626	-12.093	1.00	0.00
ATOM	1920	CD1	PHE A 124	5.719	-2.155	-12.667	1.00	0.00
ATOM	1921	CD2	PHE A 124	4.183	-0.344	-12.444	1.00	0.00
ATOM	1922	CE1	PHE A 124	6.459	-1.420	-13.574	1.00	0.00
ATOM	1923	CE2	PHE A 124	4.921	0.396	-13.350	1.00	0.00
ATOM	1924	CZ	PHE A 124	6.059	-0.143	-13.915	1.00	0.00
ATOM	1925	H	PHE A 124	2.612	-2.708	-8.188	1.00	0.00
ATOM	1926	HA	PHE A 124	4.985	-1.855	-9.442	1.00	0.00
ATOM	1927	1HB	PHE A 124	4.085	-3.458	-11.185	1.00	0.00
ATOM	1928	2HB	PHE A 124	2.729	-2.352	-11.388	1.00	0.00
ATOM	1929	HD1	PHE A 124	6.031	-3.154	-12.401	1.00	0.00
ATOM	1930	HD2	PHE A 124	3.294	0.079	-12.003	1.00	0.00
ATOM	1931	HE1	PHE A 124	7.350	-1.845	-14.013	1.00	0.00
ATOM	1932	HE2	PHE A 124	4.607	1.395	-13.616	1.00	0.00
ATOM	1933	HZ	PHE A 124	6.638	0.433	-14.623	1.00	0.00
ATOM	1934	N	VAL A 125	4.056	0.431	-9.266	1.00	0.00
ATOM	1935	CA	VAL A 125	3.527	1.775	-9.067	1.00	0.00
ATOM	1936	C	VAL A 125	3.994	2.722	-10.168	1.00	0.00
ATOM	1937	O	VAL A 125	5.184	2.798	-10.474	1.00	0.00
ATOM	1938	CB	VAL A 125	3.946	2.345	-7.697	1.00	0.00
ATOM	1939	CG1	VAL A 125	5.460	2.468	-7.604	1.00	0.00
ATOM	1940	CG2	VAL A 125	3.278	3.691	-7.448	1.00	0.00
ATOM	1941	H	VAL A 125	5.025	0.290	-9.246	1.00	0.00
ATOM	1942	HA	VAL A 125	2.450	1.714	-9.093	1.00	0.00
ATOM	1943	HB	VAL A 125	3.617	1.659	-6.930	1.00	0.00
ATOM	1944	1HG1	VAL A 125	5.919	1.830	-8.345	1.00	0.00

ATOM	1945	2HG1	VAL	A	125	5.786	2.168	-6.619	1.00	0.00
ATOM	1946	3HG1	VAL	A	125	5.750	3.493	-7.783	1.00	0.00
ATOM	1947	1HG2	VAL	A	125	2.455	3.817	-8.136	1.00	0.00
ATOM	1948	2HG2	VAL	A	125	3.996	4.483	-7.597	1.00	0.00
ATOM	1949	3HG2	VAL	A	125	2.907	3.727	-6.434	1.00	0.00
ATOM	1950	N	ASP	A	126	3.047	3.444	-10.760	1.00	0.00
ATOM	1951	CA	ASP	A	126	3.358	4.389	-11.827	1.00	0.00
ATOM	1952	C	ASP	A	126	3.034	5.816	-11.396	1.00	0.00
ATOM	1953	O	ASP	A	126	2.300	6.031	-10.433	1.00	0.00
ATOM	1954	CB	ASP	A	126	2.577	4.035	-13.094	1.00	0.00
ATOM	1955	CG	ASP	A	126	3.090	4.777	-14.314	1.00	0.00
ATOM	1956	OD1	ASP	A	126	4.012	4.260	-14.978	1.00	0.00
ATOM	1957	OD2	ASP	A	126	2.568	5.874	-14.605	1.00	0.00
ATOM	1958	H	ASP	A	126	2.117	3.340	-10.471	1.00	0.00
ATOM	1959	HA	ASP	A	126	4.415	4.319	-12.035	1.00	0.00
ATOM	1960	1HB	ASP	A	126	2.662	2.975	-13.278	1.00	0.00
ATOM	1961	2HB	ASP	A	126	1.537	4.290	-12.951	1.00	0.00
ATOM	1962	N	SER	A	127	3.587	6.788	-12.115	1.00	0.00
ATOM	1963	CA	SER	A	127	3.355	8.193	-11.803	1.00	0.00
ATOM	1964	C	SER	A	127	2.031	8.674	-12.391	1.00	0.00
ATOM	1965	O	SER	A	127	2.008	9.398	-13.386	1.00	0.00
ATOM	1966	CB	SER	A	127	4.505	9.051	-12.334	1.00	0.00
ATOM	1967	OG	SER	A	127	4.295	10.422	-12.045	1.00	0.00
ATOM	1968	H	SER	A	127	4.164	6.555	-12.872	1.00	0.00
ATOM	1969	HA	SER	A	127	3.313	8.291	-10.728	1.00	0.00
ATOM	1970	1HB	SER	A	127	5.429	8.737	-11.874	1.00	0.00
ATOM	1971	2HB	SER	A	127	4.577	8.928	-13.405	1.00	0.00

ATOM 1972	HG	SER A 127	4.311	10.928	-12.861	1.00	0.00
ATOM 1973	N	GLY A 128	0.931	8.267	-11.763	1.00	0.00
ATOM 1974	CA	GLY A 128	-0.385	8.664	-12.232	1.00	0.00
ATOM 1975	C	GLY A 128	-0.648	8.249	-13.668	1.00	0.00
ATOM 1976	O	GLY A 128	0.290	7.991	-14.423	1.00	0.00
ATOM 1977	H	GLY A 128	1.014	7.693	-10.974	1.00	0.00
ATOM 1978	1HA	GLY A 128	-1.130	8.211	-11.596	1.00	0.00
ATOM 1979	2HA	GLY A 128	-0.471	9.738	-12.158	1.00	0.00
ATOM 1980	N	PRO A 129	-1.926	8.175	-14.078	1.00	0.00
ATOM 1981	CA	PRO A 129	-2.299	7.786	-15.442	1.00	0.00
ATOM 1982	C	PRO A 129	-1.821	8.799	-16.479	1.00	0.00
ATOM 1983	O	PRO A 129	-2.277	9.941	-16.500	1.00	0.00
ATOM 1984	CB	PRO A 129	-3.834	7.744	-15.408	1.00	0.00
ATOM 1985	CG	PRO A 129	-4.197	7.717	-13.961	1.00	0.00
ATOM 1986	CD	PRO A 129	-3.106	8.462	-13.251	1.00	0.00
ATOM 1987	HA	PRO A 129	-1.915	6.809	-15.693	1.00	0.00
ATOM 1988	1HB	PRO A 129	-4.232	8.622	-15.897	1.00	0.00
ATOM 1989	2HB	PRO A 129	-4.182	6.857	-15.916	1.00	0.00
ATOM 1990	1HG	PRO A 129	-5.146	8.210	-13.811	1.00	0.00
ATOM 1991	2HG	PRO A 129	-4.243	6.696	-13.613	1.00	0.00
ATOM 1992	1HD	PRO A 129	-3.320	9.521	-13.231	1.00	0.00
ATOM 1993	2HD	PRO A 129	-2.977	8.080	-12.248	1.00	0.00
ATOM 1994	N	SER A 130	-0.901	8.371	-17.338	1.00	0.00
ATOM 1995	CA	SER A 130	-0.364	9.243	-18.375	1.00	0.00
ATOM 1996	C	SER A 130	0.255	8.429	-19.506	1.00	0.00
ATOM 1997	O	SER A 130	-0.216	8.469	-20.642	1.00	0.00
ATOM 1998	CB	SER A 130	0.681	10.191	-17.784	1.00	0.00

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ATOM	1999	OG	SER A 130	1.070	11.175	-18.727	1.00	0.00
ATOM	2000	H	SER A 130	-0.576	7.449	-17.272	1.00	0.00
ATOM	2001	HA	SER A 130	-1.180	9.826	-18.773	1.00	0.00
ATOM	2002	1HB	SER A 130	0.266	10.686	-16.918	1.00	0.00
ATOM	2003	2HB	SER A 130	1.553	9.625	-17.491	1.00	0.00
ATOM	2004	HG	SER A 130	0.288	11.568	-19.121	1.00	0.00
ATOM	2005	N	SER A 131	1.315	7.691	-19.186	1.00	0.00
ATOM	2006	CA	SER A 131	2.003	6.865	-20.174	1.00	0.00
ATOM	2007	C	SER A 131	2.731	7.732	-21.198	1.00	0.00
ATOM	2008	O	SER A 131	3.961	7.751	-21.247	1.00	0.00
ATOM	2009	CB	SER A 131	1.012	5.939	-20.885	1.00	0.00
ATOM	2010	OG	SER A 131	1.690	4.939	-21.626	1.00	0.00
ATOM	2011	H	SER A 131	1.643	7.703	-18.263	1.00	0.00
ATOM	2012	HA	SER A 131	2.732	6.263	-19.651	1.00	0.00
ATOM	2013	1HB	SER A 131	0.382	5.459	-20.150	1.00	0.00
ATOM	2014	2HB	SER A 131	0.402	6.519	-21.560	1.00	0.00
ATOM	2015	HG	SER A 131	1.062	4.272	-21.912	1.00	0.00
ATOM	2016	N	GLY A 132	1.964	8.447	-22.014	1.00	0.00
ATOM	2017	CA	GLY A 132	2.554	9.305	-23.024	1.00	0.00
ATOM	2018	C	GLY A 132	2.764	10.724	-22.530	1.00	0.00
ATOM	2019	H	GLY A 132	0.989	8.392	-21.929	1.00	0.00
ATOM	2020	1HA	GLY A 132	3.508	8.893	-23.318	1.00	0.00
ATOM	2021	2HA	GLY A 132	1.903	9.329	-23.886	1.00	0.00
TER	2022		GLY A 132					

ENDMDL

Three-Dimensional Structure Coordinate 18



ATOM 1	N	GLY A	1	-11.854	27.716	10.008	1.00	0.00
ATOM 2	CA	GLY A	1	-10.834	26.687	9.663	1.00	0.00
ATOM 3	C	GLY A	1	-11.369	25.638	8.705	1.00	0.00
ATOM 4	O	GLY A	1	-11.344	24.445	9.004	1.00	0.00
ATOM 5	1H	GLY A	1	-11.411	28.655	10.056	1.00	0.00
ATOM 6	2H	GLY A	1	-12.282	27.498	10.930	1.00	0.00
ATOM 7	3H	GLY A	1	-12.602	27.733	9.286	1.00	0.00
ATOM 8	1HA	GLY A	1	-9.986	27.175	9.207	1.00	0.00
ATOM 9	2HA	GLY A	1	-10.511	26.196	10.570	1.00	0.00
ATOM 10	N	SER A	2	-11.853	26.087	7.552	1.00	0.00
ATOM 11	CA	SER A	2	-12.397	25.180	6.548	1.00	0.00
ATOM 12	C	SER A	2	-11.966	25.600	5.146	1.00	0.00
ATOM 13	O	SER A	2	-11.515	24.775	4.351	1.00	0.00
ATOM 14	CB	SER A	2	-13.923	25.144	6.635	1.00	0.00
ATOM 15	OG	SER A	2	-14.463	26.453	6.686	1.00	0.00
ATOM 16	H	SER A	2	-11.845	27.050	7.372	1.00	0.00
ATOM 17	HA	SER A	2	-12.009	24.192	6.750	1.00	0.00
ATOM 18	1HB	SER A	2	-14.319	24.639	5.767	1.00	0.00
ATOM 19	2HB	SER A	2	-14.218	24.611	7.527	1.00	0.00
ATOM 20	HG	SER A	2	-14.164	26.891	7.487	1.00	0.00
ATOM 21	N	SER A	3	-12.108	26.887	4.850	1.00	0.00
ATOM 22	CA	SER A	3	-11.734	27.418	3.545	1.00	0.00
ATOM 23	C	SER A	3	-10.248	27.203	3.275	1.00	0.00
ATOM 24	O	SER A	3	-9.400	27.908	3.821	1.00	0.00
ATOM 25	CB	SER A	3	-12.068	28.909	3.461	1.00	0.00
ATOM 26	OG	SER A	3	-13.365	29.111	2.926	1.00	0.00
ATOM 27	H	SER A	3	-12.474	27.496	5.526	1.00	0.00

ATOM 28	HA	SER A	3	-12.303	26.887	2.796	1.00	0.00
ATOM 29	1HB	SER A	3	-12.030	29.340	4.450	1.00	0.00
ATOM 30	2HB	SER A	3	-11.348	29.401	2.824	1.00	0.00
ATOM 31	HG	SER A	3	-13.400	29.965	2.487	1.00	0.00
ATOM 32	N	GLY A	4	-9.940	26.224	2.429	1.00	0.00
ATOM 33	CA	GLY A	4	-8.557	25.934	2.104	1.00	0.00
ATOM 34	C	GLY A	4	-8.424	24.998	0.918	1.00	0.00
ATOM 35	O	GLY A	4	-8.140	23.812	1.084	1.00	0.00
ATOM 36	H	GLY A	4	-10.658	25.695	2.024	1.00	0.00
ATOM 37	1HA	GLY A	4	-8.051	26.861	1.874	1.00	0.00
ATOM 38	2HA	GLY A	4	-8.083	25.480	2.961	1.00	0.00
ATOM 39	N	SER A	5	-8.630	25.532	-0.281	1.00	0.00
ATOM 40	CA	SER A	5	-8.531	24.738	-1.500	1.00	0.00
ATOM 41	C	SER A	5	-7.692	25.456	-2.551	1.00	0.00
ATOM 42	O	SER A	5	-6.644	24.961	-2.967	1.00	0.00
ATOM 43	CB	SER A	5	-9.926	24.445	-2.057	1.00	0.00
ATOM 44	OG	SER A	5	-10.434	23.224	-1.546	1.00	0.00
ATOM 45	H	SER A	5	-8.853	26.484	-0.348	1.00	0.00
ATOM 46	HA	SER A	5	-8.050	23.804	-1.248	1.00	0.00
ATOM 47	1HB	SER A	5	-10.597	25.243	-1.780	1.00	0.00
ATOM 48	2HB	SER A	5	-9.873	24.377	-3.134	1.00	0.00
ATOM 49	HG	SER A	5	-11.338	23.104	-1.844	1.00	0.00
ATOM 50	N	SER A	6	-8.158	26.626	-2.976	1.00	0.00
ATOM 51	CA	SER A	6	-7.449	27.413	-3.978	1.00	0.00
ATOM 52	C	SER A	6	-6.094	27.871	-3.450	1.00	0.00
ATOM 53	O	SER A	6	-5.996	28.418	-2.352	1.00	0.00
ATOM 54	CB	SER A	6	-8.286	28.626	-4.389	1.00	0.00

ATOM 55	OG	SER A	6	-8.466	29.514	-3.300	1.00	0.00
ATOM 56	H	SER A	6	-8.998	26.968	-2.605	1.00	0.00
ATOM 57	HA	SER A	6	-7.292	26.785	-4.841	1.00	0.00
ATOM 58	1HB	SER A	6	-7.785	29.152	-5.188	1.00	0.00
ATOM 59	2HB	SER A	6	-9.256	28.292	-4.730	1.00	0.00
ATOM 60	HG	SER A	6	-7.629	29.932	-3.085	1.00	0.00
ATOM 61	N	GLY A	7	-5.049	27.643	-4.240	1.00	0.00
ATOM 62	CA	GLY A	7	-3.713	28.039	-3.836	1.00	0.00
ATOM 63	C	GLY A	7	-2.837	26.851	-3.486	1.00	0.00
ATOM 64	O	GLY A	7	-2.190	26.835	-2.440	1.00	0.00
ATOM 65	H	GLY A	7	-5.187	27.203	-5.105	1.00	0.00
ATOM 66	1HA	GLY A	7	-3.251	28.587	-4.643	1.00	0.00
ATOM 67	2HA	GLY A	7	-3.786	28.684	-2.972	1.00	0.00
ATOM 68	N	SER A	8	-2.819	25.854	-4.365	1.00	0.00
ATOM 69	CA	SER A	8	-2.018	24.655	-4.145	1.00	0.00
ATOM 70	C	SER A	8	-1.420	24.151	-5.454	1.00	0.00
ATOM 71	O	SER A	8	-1.979	24.373	-6.529	1.00	0.00
ATOM 72	CB	SER A	8	-2.868	23.559	-3.503	1.00	0.00
ATOM 73	OG	SER A	8	-2.080	22.430	-3.171	1.00	0.00
ATOM 74	H	SER A	8	-3.357	25.925	-5.181	1.00	0.00
ATOM 75	HA	SER A	8	-1.213	24.914	-3.473	1.00	0.00
ATOM 76	1HB	SER A	8	-3.325	23.940	-2.602	1.00	0.00
ATOM 77	2HB	SER A	8	-3.639	23.253	-4.196	1.00	0.00
ATOM 78	HG	SER A	8	-1.639	22.103	-3.960	1.00	0.00
ATOM 79	N	SER A	9	-0.282	23.472	-5.358	1.00	0.00
ATOM 80	CA	SER A	9	0.390	22.936	-6.535	1.00	0.00
ATOM 81	C	SER A	9	1.626	22.133	-6.138	1.00	0.00

ATOM 82	O	SER A	9	1.937	21.999	-4.955	1.00	0.00
ATOM 83	CB	SER A	9	0.789	24.070	-7.482	1.00	0.00
ATOM 84	OG	SER A	9	-0.211	24.291	-8.461	1.00	0.00
ATOM 85	H	SER A	9	0.114	23.327	-4.473	1.00	0.00
ATOM 86	HA	SER A	9	-0.301	22.281	-7.043	1.00	0.00
ATOM 87	1HB	SER A	9	0.926	24.978	-6.915	1.00	0.00
ATOM 88	2HB	SER A	9	1.712	23.812	-7.980	1.00	0.00
ATOM 89	HG	SER A	9	-1.002	24.633	-8.039	1.00	0.00
ATOM 90	N	SER A	10	2.326	21.603	-7.135	1.00	0.00
ATOM 91	CA	SER A	10	3.530	20.813	-6.892	1.00	0.00
ATOM 92	C	SER A	10	3.193	19.517	-6.161	1.00	0.00
ATOM 93	O	SER A	10	3.892	19.118	-5.229	1.00	0.00
ATOM 94	CB	SER A	10	4.545	21.623	-6.082	1.00	0.00
ATOM 95	OG	SER A	10	4.371	23.014	-6.290	1.00	0.00
ATOM 96	H	SER A	10	2.027	21.746	-8.058	1.00	0.00
ATOM 97	HA	SER A	10	3.962	20.569	-7.851	1.00	0.00
ATOM 98	1HB	SER A	10	4.416	21.410	-5.031	1.00	0.00
ATOM 99	2HB	SER A	10	5.545	21.348	-6.385	1.00	0.00
ATOM 100	HG	SER A	10	5.230	23.437	-6.357	1.00	0.00
ATOM 101	N	SER A	11	2.120	18.861	-6.593	1.00	0.00
ATOM 102	CA	SER A	11	1.693	17.608	-5.981	1.00	0.00
ATOM 103	C	SER A	11	2.239	16.413	-6.755	1.00	0.00
ATOM 104	O	SER A	11	2.956	16.577	-7.742	1.00	0.00
ATOM 105	CB	SER A	11	0.166	17.539	-5.924	1.00	0.00
ATOM 106	OG	SER A	11	-0.406	17.810	-7.192	1.00	0.00
ATOM 107	H	SER A	11	1.605	19.229	-7.341	1.00	0.00
ATOM 108	HA	SER A	11	2.084	17.580	-4.975	1.00	0.00

ATOM 109	1HB	SER A	11	-0.136	16.550	-5.611	1.00	0.00
ATOM 110	2HB	SER A	11	-0.199	18.267	-5.214	1.00	0.00
ATOM 111	N	GLN A	12	1.897	15.211	-6.302	1.00	0.00
ATOM 112	CA	GLN A	12	2.357	13.991	-6.955	1.00	0.00
ATOM 113	C	GLN A	12	1.465	12.807	-6.595	1.00	0.00
ATOM 114	O	GLN A	12	1.156	12.579	-5.424	1.00	0.00
ATOM 115	CB	GLN A	12	3.805	13.692	-6.562	1.00	0.00
ATOM 116	CG	GLN A	12	4.061	13.787	-5.068	1.00	0.00
ATOM 117	CD	GLN A	12	5.252	14.666	-4.733	1.00	0.00
ATOM 118	OE1	GLN A	12	5.130	15.638	-3.989	1.00	0.00
ATOM 119	NE2	GLN A	12	6.411	14.327	-5.286	1.00	0.00
ATOM 120	H	GLN A	12	1.323	15.143	-5.510	1.00	0.00
ATOM 121	HA	GLN A	12	2.309	14.150	-8.022	1.00	0.00
ATOM 122	1HB	GLN A	12	4.054	12.692	-6.886	1.00	0.00
ATOM 123	2HB	GLN A	12	4.454	14.395	-7.064	1.00	0.00
ATOM 124	1HG	GLN A	12	3.185	14.198	-4.589	1.00	0.00
ATOM 125	2HG	GLN A	12	4.248	12.794	-4.684	1.00	0.00
ATOM 126	1HE2	GLN A	12	6.433	13.540	-5.868	1.00	0.00
ATOM 127	2HE2	GLN A	12	7.197	14.877	-5.086	1.00	0.00
ATOM 128	N	HIS A	13	1.055	12.055	-7.612	1.00	0.00
ATOM 129	CA	HIS A	13	0.202	10.890	-7.412	1.00	0.00
ATOM 130	C	HIS A	13	0.769	9.673	-8.136	1.00	0.00
ATOM 131	O	HIS A	13	0.884	9.667	-9.361	1.00	0.00
ATOM 132	CB	HIS A	13	-1.217	11.178	-7.909	1.00	0.00
ATOM 133	CG	HIS A	13	-1.933	12.220	-7.107	1.00	0.00
ATOM 134	ND1	HIS A	13	-2.966	12.981	-7.612	1.00	0.00
ATOM 135	CD2	HIS A	13	-1.761	12.626	-5.826	1.00	0.00

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ATOM 136	CE1	HIS	A	13	-3.397	13.810	-6.678	1.00	0.00
ATOM 137	NE2	HIS	A	13	-2.683	13.614	-5.586	1.00	0.00
ATOM 138	H	HIS	A	13	1.337	12.288	-8.522	1.00	0.00
ATOM 139	HA	HIS	A	13	0.167	10.681	-6.352	1.00	0.00
ATOM 140	1HB	HIS	A	13	-1.169	11.522	-8.931	1.00	0.00
ATOM 141	2HB	HIS	A	13	-1.797	10.268	-7.867	1.00	0.00
ATOM 142	HD1	HIS	A	13	-3.329	12.922	-8.521	1.00	0.00
ATOM 143	HD2	HIS	A	13	-1.033	12.243	-5.125	1.00	0.00
ATOM 144	HE1	HIS	A	13	-4.199	14.525	-6.789	1.00	0.00
ATOM 145	HE2	HIS	A	13	-2.742	14.151	-4.768	1.00	0.00
ATOM 146	N	PHE	A	14	1.125	8.647	-7.371	1.00	0.00
ATOM 147	CA	PHE	A	14	1.684	7.427	-7.942	1.00	0.00
ATOM 148	C	PHE	A	14	0.668	6.288	-7.903	1.00	0.00
ATOM 149	O	PHE	A	14	0.329	5.783	-6.833	1.00	0.00
ATOM 150	CB	PHE	A	14	2.951	7.021	-7.186	1.00	0.00
ATOM 151	CG	PHE	A	14	4.188	7.731	-7.658	1.00	0.00
ATOM 152	CD1	PHE	A	14	4.832	7.330	-8.817	1.00	0.00
ATOM 153	CD2	PHE	A	14	4.706	8.798	-6.942	1.00	0.00
ATOM 154	CE1	PHE	A	14	5.971	7.981	-9.253	1.00	0.00
ATOM 155	CE2	PHE	A	14	5.844	9.453	-7.373	1.00	0.00
ATOM 156	CZ	PHE	A	14	6.477	9.043	-8.531	1.00	0.00
ATOM 157	H	PHE	A	14	1.011	8.711	-6.400	1.00	0.00
ATOM 158	HA	PHE	A	14	1.940	7.629	-8.971	1.00	0.00
ATOM 159	1HB	PHE	A	14	2.822	7.243	-6.137	1.00	0.00
ATOM 160	2HB	PHE	A	14	3.108	5.959	-7.306	1.00	0.00
ATOM 161	HD1	PHE	A	14	4.437	6.500	-9.383	1.00	0.00
ATOM 162	HD2	PHE	A	14	4.212	9.119	-6.037	1.00	0.00

ATOM 163	HE1	PHE	A	14	6.464	7.658	-10.158	1.00	0.00
ATOM 164	HE2	PHE	A	14	6.238	10.282	-6.806	1.00	0.00
ATOM 165	HZ	PHE	A	14	7.367	9.552	-8.870	1.00	0.00
ATOM 166	N	ASN	A	15	0.186	5.890	-9.078	1.00	0.00
ATOM 167	CA	ASN	A	15	-0.790	4.809	-9.180	1.00	0.00
ATOM 168	C	ASN	A	15	-0.268	3.541	-8.514	1.00	0.00
ATOM 169	O	ASN	A	15	0.653	2.898	-9.018	1.00	0.00
ATOM 170	CB	ASN	A	15	-1.120	4.531	-10.649	1.00	0.00
ATOM 171	CG	ASN	A	15	-2.608	4.344	-10.881	1.00	0.00
ATOM 172	OD1	ASN	A	15	-3.396	4.308	-9.937	1.00	0.00
ATOM 173	ND2	ASN	A	15	-2.998	4.223	-12.145	1.00	0.00
ATOM 174	H	ASN	A	15	0.496	6.332	-9.895	1.00	0.00
ATOM 175	HA	ASN	A	15	-1.688	5.124	-8.672	1.00	0.00
ATOM 176	1HB	ASN	A	15	-0.784	5.361	-11.251	1.00	0.00
ATOM 177	2HB	ASN	A	15	-0.609	3.634	-10.964	1.00	0.00
ATOM 178	1HD2	ASN	A	15	-2.315	4.261	-12.847	1.00	0.00
ATOM 179	2HD2	ASN	A	15	-3.954	4.101	-12.324	1.00	0.00
ATOM 180	N	LEU	A	16	-0.861	3.189	-7.378	1.00	0.00
ATOM 181	CA	LEU	A	16	-0.455	2.001	-6.639	1.00	0.00
ATOM 182	C	LEU	A	16	-1.330	0.806	-7.003	1.00	0.00
ATOM 183	O	LEU	A	16	-2.557	0.883	-6.948	1.00	0.00
ATOM 184	CB	LEU	A	16	-0.530	2.265	-5.134	1.00	0.00
ATOM 185	CG	LEU	A	16	0.095	1.183	-4.253	1.00	0.00
ATOM 186	CD1	LEU	A	16	1.613	1.296	-4.261	1.00	0.00
ATOM 187	CD2	LEU	A	16	-0.440	1.281	-2.831	1.00	0.00
ATOM 188	H	LEU	A	16	-1.589	3.744	-7.027	1.00	0.00
ATOM 189	HA	LEU	A	16	0.567	1.777	-6.905	1.00	0.00

ATOM 190	1HB	LEU	A	16	-0.029	3.200	-4.931	1.00	0.00
ATOM 191	2HB	LEU	A	16	-1.568	2.367	-4.859	1.00	0.00
ATOM 192	HG	LEU	A	16	-0.168	0.212	-4.644	1.00	0.00
ATOM 193	1HD1	LEU	A	16	1.920	1.966	-5.052	1.00	0.00
ATOM 194	2HD1	LEU	A	16	2.046	0.321	-4.426	1.00	0.00
ATOM 195	3HD1	LEU	A	16	1.951	1.684	-3.311	1.00	0.00
ATOM 196	1HD2	LEU	A	16	-1.508	1.437	-2.859	1.00	0.00
ATOM 197	2HD2	LEU	A	16	0.032	2.110	-2.325	1.00	0.00
ATOM 198	3HD2	LEU	A	16	-0.224	0.365	-2.301	1.00	0.00
ATOM 199	N	ASN	A	17	-0.690	-0.298	-7.376	1.00	0.00
ATOM 200	CA	ASN	A	17	-1.412	-1.508	-7.750	1.00	0.00
ATOM 201	C	ASN	A	17	-0.623	-2.757	-7.370	1.00	0.00
ATOM 202	O	ASN	A	17	0.601	-2.790	-7.488	1.00	0.00
ATOM 203	CB	ASN	A	17	-1.698	-1.512	-9.254	1.00	0.00
ATOM 204	CG	ASN	A	17	-2.898	-0.658	-9.616	1.00	0.00
ATOM 205	OD1	ASN	A	17	-2.906	0.551	-9.389	1.00	0.00
ATOM 206	ND2	ASN	A	17	-3.920	-1.288	-10.184	1.00	0.00
ATOM 207	H	ASN	A	17	0.289	-0.298	-7.401	1.00	0.00
ATOM 208	HA	ASN	A	17	-2.350	-1.513	-7.215	1.00	0.00
ATOM 209	1HB	ASN	A	17	-0.836	-1.129	-9.779	1.00	0.00
ATOM 210	2HB	ASN	A	17	-1.889	-2.525	-9.574	1.00	0.00
ATOM 211	1HD2	ASN	A	17	-3.844	-2.253	-10.334	1.00	0.00
ATOM 212	2HD2	ASN	A	17	-4.709	-0.761	-10.429	1.00	0.00
ATOM 213	N	PHE	A	18	-1.336	-3.782	-6.916	1.00	0.00
ATOM 214	CA	PHE	A	18	-0.710	-5.038	-6.521	1.00	0.00
ATOM 215	C	PHE	A	18	-1.765	-6.069	-6.131	1.00	0.00
ATOM 216	O	PHE	A	18	-2.497	-5.886	-5.158	1.00	0.00



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ATOM 217	CB	PHE A	18	0.257	-4.811	-5.358	1.00	0.00
ATOM 218	CG	PHE A	18	-0.404	-4.293	-4.113	1.00	0.00
ATOM 219	CD1	PHE A	18	-0.830	-2.976	-4.036	1.00	0.00
ATOM 220	CD2	PHE A	18	-0.598	-5.121	-3.020	1.00	0.00
ATOM 221	CE1	PHE A	18	-1.437	-2.495	-2.892	1.00	0.00
ATOM 222	CE2	PHE A	18	-1.205	-4.646	-1.873	1.00	0.00
ATOM 223	CZ	PHE A	18	-1.625	-3.332	-1.809	1.00	0.00
ATOM 224	H	PHE A	18	-2.310	-3.693	-6.849	1.00	0.00
ATOM 225	HA	PHE A	18	-0.157	-5.412	-7.370	1.00	0.00
ATOM 226	1HB	PHE A	18	0.738	-5.747	-5.111	1.00	0.00
ATOM 227	2HB	PHE A	18	1.008	-4.096	-5.658	1.00	0.00
ATOM 228	HD1	PHE A	18	-0.683	-2.322	-4.883	1.00	0.00
ATOM 229	HD2	PHE A	18	-0.270	-6.150	-3.068	1.00	0.00
ATOM 230	HE1	PHE A	18	-1.764	-1.467	-2.845	1.00	0.00
ATOM 231	HE2	PHE A	18	-1.350	-5.302	-1.027	1.00	0.00
ATOM 232	HZ	PHE A	18	-2.099	-2.959	-0.912	1.00	0.00
ATOM 233	N	THR A	19	-1.841	-7.149	-6.901	1.00	0.00
ATOM 234	CA	THR A	19	-2.809	-8.207	-6.642	1.00	0.00
ATOM 235	C	THR A	19	-2.519	-8.907	-5.319	1.00	0.00
ATOM 236	O	THR A	19	-1.387	-9.308	-5.051	1.00	0.00
ATOM 237	CB	THR A	19	-2.799	-9.225	-7.784	1.00	0.00
ATOM 238	OG1	THR A	19	-3.043	-8.590	-9.026	1.00	0.00
ATOM 239	CG2	THR A	19	-3.829	-10.321	-7.618	1.00	0.00
ATOM 240	H	THR A	19	-1.232	-7.234	-7.665	1.00	0.00
ATOM 241	HA	THR A	19	-3.788	-7.754	-6.588	1.00	0.00
ATOM 242	HB	THR A	19	-1.824	-9.692	-7.826	1.00	0.00
ATOM 243	HG1	THR A	19	-2.362	-7.934	-9.189	1.00	0.00

ATOM 244	1HG2	THR	A	19	-3.977	-10.521	-6.567	1.00	0.00
ATOM 245	2HG2	THR	A	19	-3.483	-11.218	-8.109	1.00	0.00
ATOM 246	3HG2	THR	A	19	-4.763	-10.006	-8.059	1.00	0.00
ATOM 247	N	ILE	A	20	-3.554	-9.054	-4.497	1.00	0.00
ATOM 248	CA	ILE	A	20	-3.415	-9.710	-3.202	1.00	0.00
ATOM 249	C	ILE	A	20	-4.020	-11.110	-3.235	1.00	0.00
ATOM 250	O	ILE	A	20	-5.226	-11.280	-3.057	1.00	0.00
ATOM 251	CB	ILE	A	20	-4.092	-8.896	-2.082	1.00	0.00
ATOM 252	CG1	ILE	A	20	-3.635	-7.437	-2.132	1.00	0.00
ATOM 253	CG2	ILE	A	20	-3.786	-9.506	-0.723	1.00	0.00
ATOM 254	CD1	ILE	A	20	-4.460	-6.516	-1.260	1.00	0.00
ATOM 255	H	ILE	A	20	-4.432	-8.716	-4.770	1.00	0.00
ATOM 256	HA	ILE	A	20	-2.362	-9.788	-2.979	1.00	0.00
ATOM 257	HB	ILE	A	20	-5.161	-8.936	-2.235	1.00	0.00
ATOM 258	1HG1	ILE	A	20	-2.609	-7.376	-1.801	1.00	0.00
ATOM 259	2HG1	ILE	A	20	-3.702	-7.080	-3.150	1.00	0.00
ATOM 260	1HG2	ILE	A	20	-4.652	-9.419	-0.084	1.00	0.00
ATOM 261	2HG2	ILE	A	20	-2.953	-8.985	-0.274	1.00	0.00
ATOM 262	3HG2	ILE	A	20	-3.533	-10.550	-0.846	1.00	0.00
ATOM 263	1HD1	ILE	A	20	-5.361	-6.234	-1.784	1.00	0.00
ATOM 264	2HD1	ILE	A	20	-3.887	-5.631	-1.028	1.00	0.00
ATOM 265	3HD1	ILE	A	20	-4.722	-7.026	-0.344	1.00	0.00
ATOM 266	N	THR	A	21	-3.175	-12.110	-3.466	1.00	0.00
ATOM 267	CA	THR	A	21	-3.625	-13.496	-3.525	1.00	0.00
ATOM 268	C	THR	A	21	-4.349	-13.896	-2.242	1.00	0.00
ATOM 269	O	THR	A	21	-5.207	-14.778	-2.252	1.00	0.00
ATOM 270	CB	THR	A	21	-2.436	-14.428	-3.764	1.00	0.00

ATOM 271	OG1	THR	A	21	-1.580	-14.449	-2.635	1.00	0.00
ATOM 272	CG2	THR	A	21	-1.602	-14.040	-4.966	1.00	0.00
ATOM 273	H	THR	A	21	-2.225	-11.909	-3.602	1.00	0.00
ATOM 274	HA	THR	A	21	-4.311	-13.584	-4.354	1.00	0.00
ATOM 275	HB	THR	A	21	-2.806	-15.430	-3.928	1.00	0.00
ATOM 276	HG1	THR	A	21	-2.051	-14.818	-1.883	1.00	0.00
ATOM 277	1HG2	THR	A	21	-1.857	-14.675	-5.802	1.00	0.00
ATOM 278	2HG2	THR	A	21	-0.554	-14.159	-4.730	1.00	0.00
ATOM 279	3HG2	THR	A	21	-1.799	-13.010	-5.224	1.00	0.00
ATOM 280	N	ASN	A	22	-3.999	-13.240	-1.140	1.00	0.00
ATOM 281	CA	ASN	A	22	-4.617	-13.529	0.149	1.00	0.00
ATOM 282	C	ASN	A	22	-6.061	-13.030	0.197	1.00	0.00
ATOM 283	O	ASN	A	22	-6.832	-13.426	1.073	1.00	0.00
ATOM 284	CB	ASN	A	22	-3.810	-12.888	1.279	1.00	0.00
ATOM 285	CG	ASN	A	22	-3.839	-13.712	2.551	1.00	0.00
ATOM 286	OD1	ASN	A	22	-3.050	-14.642	2.720	1.00	0.00
ATOM 287	ND2	ASN	A	22	-4.754	-13.376	3.453	1.00	0.00
ATOM 288	H	ASN	A	22	-3.309	-12.547	-1.194	1.00	0.00
ATOM 289	HA	ASN	A	22	-4.616	-14.600	0.284	1.00	0.00
ATOM 290	1HB	ASN	A	22	-2.783	-12.785	0.963	1.00	0.00
ATOM 291	2HB	ASN	A	22	-4.217	-11.910	1.495	1.00	0.00
ATOM 292	1HD2	ASN	A	22	-5.350	-12.626	3.250	1.00	0.00
ATOM 293	2HD2	ASN	A	22	-4.795	-13.893	4.284	1.00	0.00
ATOM 294	N	LEU	A	23	-6.423	-12.161	-0.742	1.00	0.00
ATOM 295	CA	LEU	A	23	-7.774	-11.614	-0.796	1.00	0.00
ATOM 296	C	LEU	A	23	-8.504	-12.077	-2.054	1.00	0.00
ATOM 297	O	LEU	A	23	-8.416	-11.438	-3.102	1.00	0.00

ATOM 298	CB	LEU A	23	-7.728	-10.085	-0.757	1.00	0.00
ATOM 299	CG	LEU A	23	-9.025	-9.409	-0.308	1.00	0.00
ATOM 300	CD1	LEU A	23	-10.102	-9.562	-1.370	1.00	0.00
ATOM 301	CD2	LEU A	23	-9.497	-9.988	1.018	1.00	0.00
ATOM 302	H	LEU A	23	-5.768	-11.879	-1.413	1.00	0.00
ATOM 303	HA	LEU A	23	-8.311	-11.970	0.071	1.00	0.00
ATOM 304	1HB	LEU A	23	-6.938	-9.786	-0.084	1.00	0.00
ATOM 305	2HB	LEU A	23	-7.489	-9.728	-1.747	1.00	0.00
ATOM 306	HG	LEU A	23	-8.844	-8.353	-0.167	1.00	0.00
ATOM 307	1HD1	LEU A	23	-10.709	-8.669	-1.399	1.00	0.00
ATOM 308	2HD1	LEU A	23	-10.726	-10.412	-1.131	1.00	0.00
ATOM 309	3HD1	LEU A	23	-9.639	-9.714	-2.333	1.00	0.00
ATOM 310	1HD2	LEU A	23	-9.957	-9.209	1.608	1.00	0.00
ATOM 311	2HD2	LEU A	23	-8.652	-10.393	1.555	1.00	0.00
ATOM 312	3HD2	LEU A	23	-10.217	-10.772	0.834	1.00	0.00
ATOM 313	N	PRO A	24	-9.241	-13.200	-1.969	1.00	0.00
ATOM 314	CA	PRO A	24	-9.988	-13.741	-3.109	1.00	0.00
ATOM 315	C	PRO A	24	-11.020	-12.751	-3.640	1.00	0.00
ATOM 316	O	PRO A	24	-11.391	-11.799	-2.954	1.00	0.00
ATOM 317	CB	PRO A	24	-10.685	-14.981	-2.535	1.00	0.00
ATOM 318	CG	PRO A	24	-9.913	-15.328	-1.309	1.00	0.00
ATOM 319	CD	PRO A	24	-9.402	-14.027	-0.761	1.00	0.00
ATOM 320	HA	PRO A	24	-9.327	-14.035	-3.911	1.00	0.00
ATOM 321	1HB	PRO A	24	-11.712	-14.742	-2.299	1.00	0.00
ATOM 322	2HB	PRO A	24	-10.655	-15.781	-3.259	1.00	0.00
ATOM 323	1HG	PRO A	24	-10.559	-15.810	-0.591	1.00	0.00
ATOM 324	2HG	PRO A	24	-9.087	-15.975	-1.566	1.00	0.00

ATOM 325	1HD	PRO	A	24	-10.126	-13.590	-0.087	1.00	0.00
ATOM 326	2HD	PRO	A	24	-8.457	-14.171	-0.262	1.00	0.00
ATOM 327	N	TYR	A	25	-11.480	-12.981	-4.866	1.00	0.00
ATOM 328	CA	TYR	A	25	-12.470	-12.107	-5.486	1.00	0.00
ATOM 329	C	TYR	A	25	-13.773	-12.856	-5.745	1.00	0.00
ATOM 330	O	TYR	A	25	-13.906	-13.563	-6.744	1.00	0.00
ATOM 331	CB	TYR	A	25	-11.928	-11.536	-6.798	1.00	0.00
ATOM 332	CG	TYR	A	25	-12.758	-10.402	-7.355	1.00	0.00
ATOM 333	CD1	TYR	A	25	-14.029	-10.632	-7.867	1.00	0.00
ATOM 334	CD2	TYR	A	25	-12.270	-9.101	-7.372	1.00	0.00
ATOM 335	CE1	TYR	A	25	-14.790	-9.597	-8.377	1.00	0.00
ATOM 336	CE2	TYR	A	25	-13.025	-8.062	-7.880	1.00	0.00
ATOM 337	CZ	TYR	A	25	-14.284	-8.315	-8.381	1.00	0.00
ATOM 338	OH	TYR	A	25	-15.039	-7.283	-8.889	1.00	0.00
ATOM 339	H	TYR	A	25	-11.147	-13.757	-5.365	1.00	0.00
ATOM 340	HA	TYR	A	25	-12.667	-11.294	-4.805	1.00	0.00
ATOM 341	1HB	TYR	A	25	-10.928	-11.164	-6.634	1.00	0.00
ATOM 342	2HB	TYR	A	25	-11.897	-12.322	-7.539	1.00	0.00
ATOM 343	HD1	TYR	A	25	-14.423	-11.637	-7.862	1.00	0.00
ATOM 344	HD2	TYR	A	25	-11.283	-8.906	-6.978	1.00	0.00
ATOM 345	HE1	TYR	A	25	-15.777	-9.796	-8.770	1.00	0.00
ATOM 346	HE2	TYR	A	25	-12.628	-7.058	-7.883	1.00	0.00
ATOM 347	HH	TYR	A	25	-14.563	-6.861	-9.609	1.00	0.00
ATOM 348	N	SER	A	26	-14.731	-12.696	-4.838	1.00	0.00
ATOM 349	CA	SER	A	26	-16.024	-13.357	-4.968	1.00	0.00
ATOM 350	C	SER	A	26	-17.061	-12.410	-5.565	1.00	0.00
ATOM 351	O	SER	A	26	-16.745	-11.278	-5.928	1.00	0.00

ATOM 352	CB	SER A	26	-16.502	-13.861	-3.604	1.00	0.00
ATOM 353	OG	SER A	26	-16.064	-15.189	-3.369	1.00	0.00
ATOM 354	H	SER A	26	-14.565	-12.120	-4.063	1.00	0.00
ATOM 355	HA	SER A	26	-15.901	-14.201	-5.631	1.00	0.00
ATOM 356	1HB	SER A	26	-16.107	-13.222	-2.828	1.00	0.00
ATOM 357	2HB	SER A	26	-17.581	-13.840	-3.574	1.00	0.00
ATOM 358	HG	SER A	26	-16.199	-15.715	-4.160	1.00	0.00
ATOM 359	N	GLN A	27	-18.298	-12.883	-5.664	1.00	0.00
ATOM 360	CA	GLN A	27	-19.382	-12.079	-6.218	1.00	0.00
ATOM 361	C	GLN A	27	-19.765	-10.949	-5.266	1.00	0.00
ATOM 362	O	GLN A	27	-20.226	-9.893	-5.696	1.00	0.00
ATOM 363	CB	GLN A	27	-20.601	-12.957	-6.504	1.00	0.00
ATOM 364	CG	GLN A	27	-21.269	-12.655	-7.836	1.00	0.00
ATOM 365	CD	GLN A	27	-22.758	-12.397	-7.697	1.00	0.00
ATOM 366	OE1	GLN A	27	-23.212	-11.839	-6.699	1.00	0.00
ATOM 367	NE2	GLN A	27	-23.525	-12.805	-8.701	1.00	0.00
ATOM 368	H	GLN A	27	-18.488	-13.794	-5.358	1.00	0.00
ATOM 369	HA	GLN A	27	-19.034	-11.649	-7.145	1.00	0.00
ATOM 370	1HB	GLN A	27	-20.290	-13.993	-6.509	1.00	0.00
ATOM 371	2HB	GLN A	27	-21.328	-12.814	-5.719	1.00	0.00
ATOM 372	1HG	GLN A	27	-20.808	-11.778	-8.264	1.00	0.00
ATOM 373	2HG	GLN A	27	-21.124	-13.496	-8.496	1.00	0.00
ATOM 374	1HE2	GLN A	27	-23.094	-13.243	-9.465	1.00	0.00
ATOM 375	2HE2	GLN A	27	-24.491	-12.652	-8.639	1.00	0.00
ATOM 376	N	ASP A	28	-19.572	-11.180	-3.970	1.00	0.00
ATOM 377	CA	ASP A	28	-19.898	-10.181	-2.959	1.00	0.00
ATOM 378	C	ASP A	28	-19.109	-8.896	-3.186	1.00	0.00

ATOM 379	O	ASP	A	28	-19.676	-7.804	-3.212	1.00	0.00
ATOM 380	CB	ASP	A	28	-19.611	-10.728	-1.560	1.00	0.00
ATOM 381	CG	ASP	A	28	-20.572	-11.831	-1.163	1.00	0.00
ATOM 382	OD1	ASP	A	28	-21.446	-11.577	-0.306	1.00	0.00
ATOM 383	OD2	ASP	A	28	-20.452	-12.949	-1.707	1.00	0.00
ATOM 384	H	ASP	A	28	-19.201	-12.042	-3.688	1.00	0.00
ATOM 385	HA	ASP	A	28	-20.952	-9.960	-3.040	1.00	0.00
ATOM 386	1HB	ASP	A	28	-18.607	-11.126	-1.534	1.00	0.00
ATOM 387	2HB	ASP	A	28	-19.695	-9.926	-0.841	1.00	0.00
ATOM 388	N	ILE	A	29	-17.797	-9.033	-3.353	1.00	0.00
ATOM 389	CA	ILE	A	29	-16.932	-7.881	-3.581	1.00	0.00
ATOM 390	C	ILE	A	29	-17.385	-7.088	-4.804	1.00	0.00
ATOM 391	O	ILE	A	29	-17.186	-5.876	-4.879	1.00	0.00
ATOM 392	CB	ILE	A	29	-15.462	-8.309	-3.769	1.00	0.00
ATOM 393	CG1	ILE	A	29	-14.995	-9.150	-2.579	1.00	0.00
ATOM 394	CG2	ILE	A	29	-14.567	-7.089	-3.942	1.00	0.00
ATOM 395	CD1	ILE	A	29	-15.056	-8.414	-1.258	1.00	0.00
ATOM 396	H	ILE	A	29	-17.403	-9.930	-3.324	1.00	0.00
ATOM 397	HA	ILE	A	29	-16.990	-7.244	-2.710	1.00	0.00
ATOM 398	HB	ILE	A	29	-15.395	-8.903	-4.668	1.00	0.00
ATOM 399	1HG1	ILE	A	29	-15.619	-10.026	-2.498	1.00	0.00
ATOM 400	2HG1	ILE	A	29	-13.972	-9.455	-2.741	1.00	0.00
ATOM 401	1HG2	ILE	A	29	-14.799	-6.362	-3.179	1.00	0.00
ATOM 402	2HG2	ILE	A	29	-14.736	-6.655	-4.916	1.00	0.00
ATOM 403	3HG2	ILE	A	29	-13.532	-7.387	-3.854	1.00	0.00
ATOM 404	1HD1	ILE	A	29	-16.035	-7.973	-1.135	1.00	0.00
ATOM 405	2HD1	ILE	A	29	-14.308	-7.635	-1.243	1.00	0.00

ATOM 406	3HD1	ILE	A	29	-14.871	-9.106	-0.450	1.00	0.00
ATOM 407	N	ALA	A	30	-17.999	-7.781	-5.757	1.00	0.00
ATOM 408	CA	ALA	A	30	-18.484	-7.140	-6.972	1.00	0.00
ATOM 409	C	ALA	A	30	-19.512	-6.056	-6.654	1.00	0.00
ATOM 410	O	ALA	A	30	-19.760	-5.166	-7.467	1.00	0.00
ATOM 411	CB	ALA	A	30	-19.083	-8.177	-7.911	1.00	0.00
ATOM 412	H	ALA	A	30	-18.131	-8.744	-5.640	1.00	0.00
ATOM 413	HA	ALA	A	30	-17.639	-6.686	-7.469	1.00	0.00
ATOM 414	1HB	ALA	A	30	-18.899	-7.886	-8.934	1.00	0.00
ATOM 415	2HB	ALA	A	30	-20.148	-8.244	-7.741	1.00	0.00
ATOM 416	3HB	ALA	A	30	-18.628	-9.138	-7.723	1.00	0.00
ATOM 417	N	GLN	A	31	-20.108	-6.137	-5.467	1.00	0.00
ATOM 418	CA	GLN	A	31	-21.109	-5.162	-5.047	1.00	0.00
ATOM 419	C	GLN	A	31	-20.765	-4.588	-3.672	1.00	0.00
ATOM 420	O	GLN	A	31	-20.679	-5.326	-2.690	1.00	0.00
ATOM 421	CB	GLN	A	31	-22.493	-5.812	-5.009	1.00	0.00
ATOM 422	CG	GLN	A	31	-23.158	-5.907	-6.372	1.00	0.00
ATOM 423	CD	GLN	A	31	-24.400	-5.044	-6.480	1.00	0.00
ATOM 424	OE1	GLN	A	31	-25.001	-4.672	-5.472	1.00	0.00
ATOM 425	NE2	GLN	A	31	-24.792	-4.720	-7.707	1.00	0.00
ATOM 426	H	GLN	A	31	-19.871	-6.868	-4.860	1.00	0.00
ATOM 427	HA	GLN	A	31	-21.116	-4.363	-5.771	1.00	0.00
ATOM 428	1HB	GLN	A	31	-22.399	-6.810	-4.608	1.00	0.00
ATOM 429	2HB	GLN	A	31	-23.133	-5.231	-4.359	1.00	0.00
ATOM 430	1HG	GLN	A	31	-22.452	-5.589	-7.126	1.00	0.00
ATOM 431	2HG	GLN	A	31	-23.436	-6.936	-6.552	1.00	0.00
ATOM 432	1HE2	GLN	A	31	-24.265	-5.052	-8.464	1.00	0.00



ATOM 433	2HE2	GLN	A	31	-25.592	-4.162	-7.806	1.00	0.00
ATOM 434	N	PRO	A	32	-20.565	-3.260	-3.579	1.00	0.00
ATOM 435	CA	PRO	A	32	-20.230	-2.601	-2.311	1.00	0.00
ATOM 436	C	PRO	A	32	-21.249	-2.895	-1.215	1.00	0.00
ATOM 437	O	PRO	A	32	-20.943	-2.791	-0.026	1.00	0.00
ATOM 438	CB	PRO	A	32	-20.242	-1.111	-2.664	1.00	0.00
ATOM 439	CG	PRO	A	32	-20.001	-1.064	-4.132	1.00	0.00
ATOM 440	CD	PRO	A	32	-20.645	-2.299	-4.695	1.00	0.00
ATOM 441	HA	PRO	A	32	-19.245	-2.883	-1.969	1.00	0.00
ATOM 442	1HB	PRO	A	32	-21.202	-0.686	-2.408	1.00	0.00
ATOM 443	2HB	PRO	A	32	-19.461	-0.602	-2.121	1.00	0.00
ATOM 444	1HG	PRO	A	32	-20.456	-0.179	-4.553	1.00	0.00
ATOM 445	2HG	PRO	A	32	-18.939	-1.072	-4.332	1.00	0.00
ATOM 446	1HD	PRO	A	32	-21.674	-2.101	-4.960	1.00	0.00
ATOM 447	2HD	PRO	A	32	-20.094	-2.657	-5.552	1.00	0.00
ATOM 448	N	SER	A	33	-22.462	-3.260	-1.620	1.00	0.00
ATOM 449	CA	SER	A	33	-23.526	-3.568	-0.670	1.00	0.00
ATOM 450	C	SER	A	33	-23.098	-4.665	0.300	1.00	0.00
ATOM 451	O	SER	A	33	-23.565	-4.716	1.439	1.00	0.00
ATOM 452	CB	SER	A	33	-24.792	-3.997	-1.415	1.00	0.00
ATOM 453	OG	SER	A	33	-25.821	-4.354	-0.508	1.00	0.00
ATOM 454	H	SER	A	33	-22.646	-3.324	-2.580	1.00	0.00
ATOM 455	HA	SER	A	33	-23.738	-2.670	-0.109	1.00	0.00
ATOM 456	1HB	SER	A	33	-25.139	-3.181	-2.030	1.00	0.00
ATOM 457	2HB	SER	A	33	-24.567	-4.850	-2.040	1.00	0.00
ATOM 458	HG	SER	A	33	-25.880	-3.693	0.186	1.00	0.00
ATOM 459	N	THR	A	34	-22.209	-5.542	-0.156	1.00	0.00

ATOM 460	CA	THR A	34	-21.721	-6.637	0.675	1.00	0.00
ATOM 461	C	THR A	34	-20.787	-6.120	1.765	1.00	0.00
ATOM 462	O	THR A	34	-20.243	-5.021	1.662	1.00	0.00
ATOM 463	CB	THR A	34	-20.995	-7.672	-0.185	1.00	0.00
ATOM 464	OG1	THR A	34	-19.890	-7.085	-0.849	1.00	0.00
ATOM 465	CG2	THR A	34	-21.881	-8.305	-1.237	1.00	0.00
ATOM 466	H	THR A	34	-21.873	-5.451	-1.072	1.00	0.00
ATOM 467	HA	THR A	34	-22.575	-7.104	1.140	1.00	0.00
ATOM 468	HB	THR A	34	-20.626	-8.461	0.455	1.00	0.00
ATOM 469	HG1	THR A	34	-20.206	-6.462	-1.508	1.00	0.00
ATOM 470	1HG2	THR A	34	-21.670	-7.861	-2.199	1.00	0.00
ATOM 471	2HG2	THR A	34	-22.917	-8.137	-0.982	1.00	0.00
ATOM 472	3HG2	THR A	34	-21.686	-9.365	-1.280	1.00	0.00
ATOM 473	N	THR A	35	-20.608	-6.923	2.809	1.00	0.00
ATOM 474	CA	THR A	35	-19.741	-6.549	3.921	1.00	0.00
ATOM 475	C	THR A	35	-18.281	-6.864	3.606	1.00	0.00
ATOM 476	O	THR A	35	-17.372	-6.210	4.114	1.00	0.00
ATOM 477	CB	THR A	35	-20.168	-7.280	5.195	1.00	0.00
ATOM 478	OG1	THR A	35	-21.576	-7.423	5.242	1.00	0.00
ATOM 479	CG2	THR A	35	-19.735	-6.575	6.462	1.00	0.00
ATOM 480	H	THR A	35	-21.070	-7.786	2.833	1.00	0.00
ATOM 481	HA	THR A	35	-19.841	-5.486	4.076	1.00	0.00
ATOM 482	HB	THR A	35	-19.727	-8.266	5.198	1.00	0.00
ATOM 483	HG1	THR A	35	-21.983	-6.558	5.340	1.00	0.00
ATOM 484	1HG2	THR A	35	-20.490	-6.706	7.223	1.00	0.00
ATOM 485	2HG2	THR A	35	-19.603	-5.522	6.262	1.00	0.00
ATOM 486	3HG2	THR A	35	-18.801	-6.996	6.806	1.00	0.00

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ATOM 487	N	LYS A	36	-18.065	-7.870	2.764	1.00	0.00
ATOM 488	CA	LYS A	36	-16.719	-8.270	2.380	1.00	0.00
ATOM 489	C	LYS A	36	-16.006	-7.136	1.648	1.00	0.00
ATOM 490	O	LYS A	36	-14.822	-6.884	1.876	1.00	0.00
ATOM 491	CB	LYS A	36	-16.781	-9.517	1.497	1.00	0.00
ATOM 492	CG	LYS A	36	-15.745	-10.573	1.851	1.00	0.00
ATOM 493	CD	LYS A	36	-14.329	-10.018	1.792	1.00	0.00
ATOM 494	CE	LYS A	36	-13.455	-10.817	0.837	1.00	0.00
ATOM 495	NZ	LYS A	36	-12.577	-11.779	1.559	1.00	0.00
ATOM 496	H	LYS A	36	-18.829	-8.355	2.388	1.00	0.00
ATOM 497	HA	LYS A	36	-16.171	-8.503	3.280	1.00	0.00
ATOM 498	1HB	LYS A	36	-17.760	-9.961	1.595	1.00	0.00
ATOM 499	2HB	LYS A	36	-16.633	-9.224	0.471	1.00	0.00
ATOM 500	1HG	LYS A	36	-15.937	-10.929	2.852	1.00	0.00
ATOM 501	2HG	LYS A	36	-15.831	-11.394	1.155	1.00	0.00
ATOM 502	1HD	LYS A	36	-14.366	-8.995	1.455	1.00	0.00
ATOM 503	2HD	LYS A	36	-13.895	-10.059	2.780	1.00	0.00
ATOM 504	1HE	LYS A	36	-14.092	-11.365	0.158	1.00	0.00
ATOM 505	2HE	LYS A	36	-12.838	-10.132	0.275	1.00	0.00
ATOM 506	1HZ	LYS A	36	-13.140	-12.578	1.914	1.00	0.00
ATOM 507	2HZ	LYS A	36	-12.117	-11.308	2.364	1.00	0.00
ATOM 508	3HZ	LYS A	36	-11.843	-12.143	0.918	1.00	0.00
ATOM 509	N	TYR A	37	-16.735	-6.455	0.772	1.00	0.00
ATOM 510	CA	TYR A	37	-16.175	-5.346	0.009	1.00	0.00
ATOM 511	C	TYR A	37	-15.711	-4.226	0.936	1.00	0.00
ATOM 512	O	TYR A	37	-14.576	-3.759	0.843	1.00	0.00
ATOM 513	CB	TYR A	37	-17.211	-4.811	-0.983	1.00	0.00

ATOM 514	CG	TYR A	37	-16.739	-3.608	-1.771	1.00	0.00
ATOM 515	CD1	TYR A	37	-16.920	-2.320	-1.282	1.00	0.00
ATOM 516	CD2	TYR A	37	-16.114	-3.762	-3.001	1.00	0.00
ATOM 517	CE1	TYR A	37	-16.491	-1.219	-1.999	1.00	0.00
ATOM 518	CE2	TYR A	37	-15.683	-2.666	-3.724	1.00	0.00
ATOM 519	CZ	TYR A	37	-15.874	-1.397	-3.218	1.00	0.00
ATOM 520	OH	TYR A	37	-15.446	-0.302	-3.935	1.00	0.00
ATOM 521	H	TYR A	37	-17.675	-6.701	0.637	1.00	0.00
ATOM 522	HA	TYR A	37	-15.324	-5.718	-0.540	1.00	0.00
ATOM 523	1HB	TYR A	37	-17.459	-5.590	-1.688	1.00	0.00
ATOM 524	2HB	TYR A	37	-18.102	-4.526	-0.443	1.00	0.00
ATOM 525	HD1	TYR A	37	-17.404	-2.184	-0.327	1.00	0.00
ATOM 526	HD2	TYR A	37	-15.967	-4.756	-3.395	1.00	0.00
ATOM 527	HE1	TYR A	37	-16.640	-0.226	-1.602	1.00	0.00
ATOM 528	HE2	TYR A	37	-15.200	-2.805	-4.680	1.00	0.00
ATOM 529	HH	TYR A	37	-16.160	0.014	-4.492	1.00	0.00
ATOM 530	N	GLN A	38	-16.598	-3.796	1.828	1.00	0.00
ATOM 531	CA	GLN A	38	-16.279	-2.728	2.770	1.00	0.00
ATOM 532	C	GLN A	38	-15.286	-3.205	3.825	1.00	0.00
ATOM 533	O	GLN A	38	-14.441	-2.438	4.288	1.00	0.00
ATOM 534	CB	GLN A	38	-17.555	-2.221	3.447	1.00	0.00
ATOM 535	CG	GLN A	38	-18.628	-1.781	2.466	1.00	0.00
ATOM 536	CD	GLN A	38	-19.936	-1.433	3.151	1.00	0.00
ATOM 537	OE1	GLN A	38	-20.095	-1.643	4.353	1.00	0.00
ATOM 538	NE2	GLN A	38	-20.881	-0.899	2.385	1.00	0.00
ATOM 539	H	GLN A	38	-17.487	-4.206	1.854	1.00	0.00
ATOM 540	HA	GLN A	38	-15.833	-1.919	2.213	1.00	0.00

ATOM 541	1HB	GLN	A	38	-17.961	-3.012	4.061	1.00	0.00
ATOM 542	2HB	GLN	A	38	-17.304	-1.381	4.076	1.00	0.00
ATOM 543	1HG	GLN	A	38	-18.277	-0.909	1.934	1.00	0.00
ATOM 544	2HG	GLN	A	38	-18.808	-2.582	1.764	1.00	0.00
ATOM 545	1HE2	GLN	A	38	-20.683	-0.761	1.436	1.00	0.00
ATOM 546	2HE2	GLN	A	38	-21.736	-0.665	2.802	1.00	0.00
ATOM 547	N	GLN	A	39	-15.393	-4.475	4.203	1.00	0.00
ATOM 548	CA	GLN	A	39	-14.504	-5.052	5.205	1.00	0.00
ATOM 549	C	GLN	A	39	-13.046	-4.949	4.768	1.00	0.00
ATOM 550	O	GLN	A	39	-12.235	-4.297	5.427	1.00	0.00
ATOM 551	CB	GLN	A	39	-14.870	-6.515	5.459	1.00	0.00
ATOM 552	CG	GLN	A	39	-15.868	-6.704	6.590	1.00	0.00
ATOM 553	CD	GLN	A	39	-15.474	-7.822	7.536	1.00	0.00
ATOM 554	OE1	GLN	A	39	-14.291	-8.121	7.704	1.00	0.00
ATOM 555	NE2	GLN	A	39	-16.466	-8.445	8.162	1.00	0.00
ATOM 556	H	GLN	A	39	-16.087	-5.037	3.799	1.00	0.00
ATOM 557	HA	GLN	A	39	-14.632	-4.495	6.121	1.00	0.00
ATOM 558	1HB	GLN	A	39	-15.297	-6.930	4.557	1.00	0.00
ATOM 559	2HB	GLN	A	39	-13.972	-7.063	5.705	1.00	0.00
ATOM 560	1HG	GLN	A	39	-15.935	-5.785	7.151	1.00	0.00
ATOM 561	2HG	GLN	A	39	-16.834	-6.937	6.165	1.00	0.00
ATOM 562	1HE2	GLN	A	39	-17.383	-8.153	7.980	1.00	0.00
ATOM 563	2HE2	GLN	A	39	-16.239	-9.171	8.780	1.00	0.00
ATOM 564	N	THR	A	40	-12.718	-5.597	3.655	1.00	0.00
ATOM 565	CA	THR	A	40	-11.356	-5.580	3.132	1.00	0.00
ATOM 566	C	THR	A	40	-10.918	-4.159	2.795	1.00	0.00
ATOM 567	O	THR	A	40	-9.744	-3.813	2.928	1.00	0.00

ATOM 568	CB	THR A	40	-11.255	-6.465	1.889	1.00	0.00
ATOM 569	OG1	THR A	40	-11.667	-7.790	2.181	1.00	0.00
ATOM 570	CG2	THR A	40	-9.855	-6.537	1.318	1.00	0.00
ATOM 571	H	THR A	40	-13.409	-6.101	3.175	1.00	0.00
ATOM 572	HA	THR A	40	-10.704	-5.973	3.897	1.00	0.00
ATOM 573	HB	THR A	40	-11.905	-6.069	1.123	1.00	0.00
ATOM 574	HG1	THR A	40	-11.266	-8.075	3.005	1.00	0.00
ATOM 575	1HG2	THR A	40	-9.311	-7.336	1.797	1.00	0.00
ATOM 576	2HG2	THR A	40	-9.347	-5.600	1.493	1.00	0.00
ATOM 577	3HG2	THR A	40	-9.909	-6.723	0.255	1.00	0.00
ATOM 578	N	LYS A	41	-11.867	-3.338	2.358	1.00	0.00
ATOM 579	CA	LYS A	41	-11.577	-1.953	2.001	1.00	0.00
ATOM 580	C	LYS A	41	-10.959	-1.201	3.176	1.00	0.00
ATOM 581	O	LYS A	41	-10.002	-0.445	3.007	1.00	0.00
ATOM 582	CB	LYS A	41	-12.853	-1.244	1.543	1.00	0.00
ATOM 583	CG	LYS A	41	-12.596	0.106	0.890	1.00	0.00
ATOM 584	CD	LYS A	41	-13.876	0.705	0.331	1.00	0.00
ATOM 585	CE	LYS A	41	-13.597	1.581	-0.881	1.00	0.00
ATOM 586	NZ	LYS A	41	-13.272	2.981	-0.491	1.00	0.00
ATOM 587	H	LYS A	41	-12.785	-3.671	2.272	1.00	0.00
ATOM 588	HA	LYS A	41	-10.870	-1.964	1.185	1.00	0.00
ATOM 589	1HB	LYS A	41	-13.364	-1.873	0.829	1.00	0.00
ATOM 590	2HB	LYS A	41	-13.492	-1.090	2.398	1.00	0.00
ATOM 591	1HG	LYS A	41	-12.188	0.779	1.628	1.00	0.00
ATOM 592	2HG	LYS A	41	-11.887	-0.024	0.085	1.00	0.00
ATOM 593	1HD	LYS A	41	-14.539	-0.094	0.039	1.00	0.00
ATOM 594	2HD	LYS A	41	-14.345	1.304	1.097	1.00	0.00

ATOM 595	1HE	LYS	A	41	-12.763	1.166	-1.425	1.00	0.00
ATOM 596	2HE	LYS	A	41	-14.472	1.587	-1.513	1.00	0.00
ATOM 597	1HZ	LYS	A	41	-13.675	3.195	0.444	1.00	0.00
ATOM 598	2HZ	LYS	A	41	-13.666	3.646	-1.185	1.00	0.00
ATOM 599	3HZ	LYS	A	41	-12.240	3.110	-0.450	1.00	0.00
ATOM 600	N	ARG	A	42	-11.511	-1.413	4.365	1.00	0.00
ATOM 601	CA	ARG	A	42	-11.014	-0.754	5.568	1.00	0.00
ATOM 602	C	ARG	A	42	-9.746	-1.431	6.079	1.00	0.00
ATOM 603	O	ARG	A	42	-8.891	-0.789	6.689	1.00	0.00
ATOM 604	CB	ARG	A	42	-12.086	-0.763	6.659	1.00	0.00
ATOM 605	CG	ARG	A	42	-11.974	0.399	7.632	1.00	0.00
ATOM 606	CD	ARG	A	42	-12.407	1.707	6.988	1.00	0.00
ATOM 607	NE	ARG	A	42	-12.042	2.865	7.802	1.00	0.00
ATOM 608	CZ	ARG	A	42	-12.005	4.112	7.340	1.00	0.00
ATOM 609	NH1	ARG	A	42	-12.309	4.369	6.074	1.00	0.00
ATOM 610	NH2	ARG	A	42	-11.664	5.108	8.147	1.00	0.00
ATOM 611	H	ARG	A	42	-12.272	-2.027	4.436	1.00	0.00
ATOM 612	HA	ARG	A	42	-10.783	0.269	5.312	1.00	0.00
ATOM 613	1HB	ARG	A	42	-13.059	-0.723	6.193	1.00	0.00
ATOM 614	2HB	ARG	A	42	-12.004	-1.683	7.220	1.00	0.00
ATOM 615	1HG	ARG	A	42	-12.605	0.204	8.485	1.00	0.00
ATOM 616	2HG	ARG	A	42	-10.947	0.489	7.954	1.00	0.00
ATOM 617	1HD	ARG	A	42	-11.931	1.793	6.023	1.00	0.00
ATOM 618	2HD	ARG	A	42	-13.479	1.692	6.859	1.00	0.00
ATOM 619	HE	ARG	A	42	-11.812	2.704	8.741	1.00	0.00
ATOM 620	1HH1	ARG	A	42	-12.566	3.623	5.460	1.00	0.00
ATOM 621	2HH1	ARG	A	42	-12.280	5.309	5.734	1.00	0.00

ATOM 622	1HH2	ARG	A	42	-11.434	4.920	9.102	1.00	0.00
ATOM 623	2HH2	ARG	A	42	-11.636	6.046	7.801	1.00	0.00
ATOM 624	N	SER	A	43	-9.631	-2.731	5.827	1.00	0.00
ATOM 625	CA	SER	A	43	-8.468	-3.495	6.263	1.00	0.00
ATOM 626	C	SER	A	43	-7.205	-3.026	5.546	1.00	0.00
ATOM 627	O	SER	A	43	-6.170	-2.804	6.174	1.00	0.00
ATOM 628	CB	SER	A	43	-8.687	-4.987	6.010	1.00	0.00
ATOM 629	OG	SER	A	43	-7.742	-5.770	6.720	1.00	0.00
ATOM 630	H	SER	A	43	-10.346	-3.189	5.336	1.00	0.00
ATOM 631	HA	SER	A	43	-8.345	-3.333	7.324	1.00	0.00
ATOM 632	1HB	SER	A	43	-9.680	-5.263	6.335	1.00	0.00
ATOM 633	2HB	SER	A	43	-8.583	-5.190	4.955	1.00	0.00
ATOM 634	HG	SER	A	43	-6.858	-5.566	6.408	1.00	0.00
ATOM 635	N	ILE	A	44	-7.298	-2.878	4.229	1.00	0.00
ATOM 636	CA	ILE	A	44	-6.162	-2.436	3.427	1.00	0.00
ATOM 637	C	ILE	A	44	-5.848	-0.965	3.682	1.00	0.00
ATOM 638	O	ILE	A	44	-4.693	-0.595	3.894	1.00	0.00
ATOM 639	CB	ILE	A	44	-6.419	-2.645	1.922	1.00	0.00
ATOM 640	CG1	ILE	A	44	-6.867	-4.083	1.653	1.00	0.00
ATOM 641	CG2	ILE	A	44	-5.172	-2.314	1.117	1.00	0.00
ATOM 642	CD1	ILE	A	44	-7.392	-4.301	0.251	1.00	0.00
ATOM 643	H	ILE	A	44	-8.150	-3.071	3.785	1.00	0.00
ATOM 644	HA	ILE	A	44	-5.305	-3.030	3.710	1.00	0.00
ATOM 645	HB	ILE	A	44	-7.204	-1.969	1.617	1.00	0.00
ATOM 646	1HG1	ILE	A	44	-6.027	-4.748	1.798	1.00	0.00
ATOM 647	2HG1	ILE	A	44	-7.651	-4.346	2.347	1.00	0.00
ATOM 648	1HG2	ILE	A	44	-4.514	-1.695	1.708	1.00	0.00



ATOM 649	2HG2	ILE	A	44	-5.452	-1.784	0.218	1.00	0.00
ATOM 650	3HG2	ILE	A	44	-4.662	-3.229	0.851	1.00	0.00
ATOM 651	1HD1	ILE	A	44	-7.027	-3.518	-0.396	1.00	0.00
ATOM 652	2HD1	ILE	A	44	-8.473	-4.282	0.266	1.00	0.00
ATOM 653	3HD1	ILE	A	44	-7.054	-5.259	-0.116	1.00	0.00
ATOM 654	N	GLU	A	45	-6.883	-0.130	3.659	1.00	0.00
ATOM 655	CA	GLU	A	45	-6.715	1.300	3.888	1.00	0.00
ATOM 656	C	GLU	A	45	-6.087	1.564	5.255	1.00	0.00
ATOM 657	O	GLU	A	45	-5.366	2.544	5.439	1.00	0.00
ATOM 658	CB	GLU	A	45	-8.064	2.016	3.785	1.00	0.00
ATOM 659	CG	GLU	A	45	-8.238	2.799	2.493	1.00	0.00
ATOM 660	CD	GLU	A	45	-7.301	3.986	2.399	1.00	0.00
ATOM 661	OE1	GLU	A	45	-7.790	5.134	2.456	1.00	0.00
ATOM 662	OE2	GLU	A	45	-6.078	3.769	2.269	1.00	0.00
ATOM 663	H	GLU	A	45	-7.779	-0.484	3.485	1.00	0.00
ATOM 664	HA	GLU	A	45	-6.055	1.683	3.123	1.00	0.00
ATOM 665	1HB	GLU	A	45	-8.853	1.281	3.844	1.00	0.00
ATOM 666	2HB	GLU	A	45	-8.161	2.703	4.613	1.00	0.00
ATOM 667	1HG	GLU	A	45	-8.045	2.140	1.660	1.00	0.00
ATOM 668	2HG	GLU	A	45	-9.257	3.156	2.440	1.00	0.00
ATOM 669	N	ASN	A	46	-6.366	0.681	6.208	1.00	0.00
ATOM 670	CA	ASN	A	46	-5.828	0.817	7.556	1.00	0.00
ATOM 671	C	ASN	A	46	-4.394	0.299	7.623	1.00	0.00
ATOM 672	O	ASN	A	46	-3.554	0.859	8.327	1.00	0.00
ATOM 673	CB	ASN	A	46	-6.705	0.060	8.555	1.00	0.00
ATOM 674	CG	ASN	A	46	-6.243	0.244	9.987	1.00	0.00
ATOM 675	OD1	ASN	A	46	-5.613	1.246	10.325	1.00	0.00

ATOM 676	ND2	ASN	A	46	-6.553	-0.728	10.837	1.00	0.00
ATOM 677	H	ASN	A	46	-6.946	-0.080	6.000	1.00	0.00
ATOM 678	HA	ASN	A	46	-5.831	1.866	7.810	1.00	0.00
ATOM 679	1HB	ASN	A	46	-7.721	0.419	8.477	1.00	0.00
ATOM 680	2HB	ASN	A	46	-6.681	-0.993	8.320	1.00	0.00
ATOM 681	1HD2	ASN	A	46	-7.056	-1.498	10.498	1.00	0.00
ATOM 682	2HD2	ASN	A	46	-6.266	-0.636	11.770	1.00	0.00
ATOM 683	N	ALA	A	47	-4.124	-0.773	6.887	1.00	0.00
ATOM 684	CA	ALA	A	47	-2.792	-1.367	6.862	1.00	0.00
ATOM 685	C	ALA	A	47	-1.816	-0.490	6.087	1.00	0.00
ATOM 686	O	ALA	A	47	-0.629	-0.427	6.414	1.00	0.00
ATOM 687	CB	ALA	A	47	-2.849	-2.762	6.255	1.00	0.00
ATOM 688	H	ALA	A	47	-4.836	-1.175	6.347	1.00	0.00
ATOM 689	HA	ALA	A	47	-2.449	-1.459	7.883	1.00	0.00
ATOM 690	1HB	ALA	A	47	-1.965	-2.932	5.659	1.00	0.00
ATOM 691	2HB	ALA	A	47	-3.726	-2.847	5.629	1.00	0.00
ATOM 692	3HB	ALA	A	47	-2.898	-3.496	7.044	1.00	0.00
ATOM 693	N	LEU	A	48	-2.320	0.185	5.060	1.00	0.00
ATOM 694	CA	LEU	A	48	-1.492	1.059	4.237	1.00	0.00
ATOM 695	C	LEU	A	48	-1.095	2.316	5.007	1.00	0.00
ATOM 696	O	LEU	A	48	0.035	2.792	4.895	1.00	0.00
ATOM 697	CB	LEU	A	48	-2.237	1.444	2.958	1.00	0.00
ATOM 698	CG	LEU	A	48	-2.074	0.464	1.795	1.00	0.00
ATOM 699	CD1	LEU	A	48	-3.028	0.814	0.664	1.00	0.00
ATOM 700	CD2	LEU	A	48	-0.635	0.463	1.300	1.00	0.00
ATOM 701	H	LEU	A	48	-3.273	0.092	4.850	1.00	0.00
ATOM 702	HA	LEU	A	48	-0.598	0.515	3.973	1.00	0.00

ATOM 703	1HB	LEU	A	48	-3.290	1.524	3.189	1.00	0.00
ATOM 704	2HB	LEU	A	48	-1.882	2.411	2.637	1.00	0.00
ATOM 705	HG	LEU	A	48	-2.312	-0.532	2.136	1.00	0.00
ATOM 706	1HD1	LEU	A	48	-2.795	1.798	0.287	1.00	0.00
ATOM 707	2HD1	LEU	A	48	-4.044	0.801	1.033	1.00	0.00
ATOM 708	3HD1	LEU	A	48	-2.925	0.089	-0.131	1.00	0.00
ATOM 709	1HD2	LEU	A	48	0.014	0.100	2.083	1.00	0.00
ATOM 710	2HD2	LEU	A	48	-0.347	1.466	1.028	1.00	0.00
ATOM 711	3HD2	LEU	A	48	-0.553	-0.182	0.437	1.00	0.00
ATOM 712	N	ASN	A	49	-2.030	2.848	5.786	1.00	0.00
ATOM 713	CA	ASN	A	49	-1.779	4.051	6.572	1.00	0.00
ATOM 714	C	ASN	A	49	-0.597	3.850	7.516	1.00	0.00
ATOM 715	O	ASN	A	49	0.399	4.568	7.441	1.00	0.00
ATOM 716	CB	ASN	A	49	-3.026	4.432	7.372	1.00	0.00
ATOM 717	CG	ASN	A	49	-2.991	5.872	7.848	1.00	0.00
ATOM 718	OD1	ASN	A	49	-2.114	6.262	8.619	1.00	0.00
ATOM 719	ND2	ASN	A	49	-3.948	6.669	7.389	1.00	0.00
ATOM 720	H	ASN	A	49	-2.913	2.423	5.833	1.00	0.00
ATOM 721	HA	ASN	A	49	-1.545	4.851	5.886	1.00	0.00
ATOM 722	1HB	ASN	A	49	-3.899	4.299	6.751	1.00	0.00
ATOM 723	2HB	ASN	A	49	-3.102	3.788	8.236	1.00	0.00
ATOM 724	1HD2	ASN	A	49	-4.614	6.289	6.778	1.00	0.00
ATOM 725	2HD2	ASN	A	49	-3.951	7.604	7.679	1.00	0.00
ATOM 726	N	GLN	A	50	-0.716	2.869	8.405	1.00	0.00
ATOM 727	CA	GLN	A	50	0.342	2.575	9.366	1.00	0.00
ATOM 728	C	GLN	A	50	1.639	2.207	8.653	1.00	0.00
ATOM 729	O	GLN	A	50	2.732	2.458	9.162	1.00	0.00

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ATOM 730	CB	GLN A	50	-0.085	1.436	10.292	1.00	0.00
ATOM 731	CG	GLN A	50	-0.395	0.140	9.562	1.00	0.00
ATOM 732	CD	GLN A	50	-1.476	-0.673	10.247	1.00	0.00
ATOM 733	OE1	GLN A	50	-2.621	-0.236	10.360	1.00	0.00
ATOM 734	NE2	GLN A	50	-1.116	-1.864	10.713	1.00	0.00
ATOM 735	H	GLN A	50	-1.535	2.332	8.418	1.00	0.00
ATOM 736	HA	GLN A	50	0.509	3.463	9.956	1.00	0.00
ATOM 737	1HB	GLN A	50	0.709	1.245	10.999	1.00	0.00
ATOM 738	2HB	GLN A	50	-0.970	1.739	10.832	1.00	0.00
ATOM 739	1HG	GLN A	50	-0.724	0.375	8.561	1.00	0.00
ATOM 740	2HG	GLN A	50	0.506	-0.455	9.512	1.00	0.00
ATOM 741	1HE2	GLN A	50	-0.186	-2.147	10.588	1.00	0.00
ATOM 742	2HE2	GLN A	50	-1.794	-2.410	11.160	1.00	0.00
ATOM 743	N	LEU A	51	1.512	1.609	7.472	1.00	0.00
ATOM 744	CA	LEU A	51	2.677	1.206	6.691	1.00	0.00
ATOM 745	C	LEU A	51	3.460	2.425	6.212	1.00	0.00
ATOM 746	O	LEU A	51	4.680	2.368	6.058	1.00	0.00
ATOM 747	CB	LEU A	51	2.245	0.359	5.493	1.00	0.00
ATOM 748	CG	LEU A	51	3.391	-0.279	4.705	1.00	0.00
ATOM 749	CD1	LEU A	51	2.944	-1.591	4.079	1.00	0.00
ATOM 750	CD2	LEU A	51	3.899	0.678	3.637	1.00	0.00
ATOM 751	H	LEU A	51	0.616	1.434	7.118	1.00	0.00
ATOM 752	HA	LEU A	51	3.313	0.612	7.329	1.00	0.00
ATOM 753	1HB	LEU A	51	1.598	-0.428	5.851	1.00	0.00
ATOM 754	2HB	LEU A	51	1.681	0.988	4.819	1.00	0.00
ATOM 755	HG	LEU A	51	4.207	-0.493	5.380	1.00	0.00
ATOM 756	1HD1	LEU A	51	3.759	-2.019	3.515	1.00	0.00

ATOM 757	2HD1	LEU	A	51	2.107	-1.409	3.421	1.00	0.00
ATOM 758	3HD1	LEU	A	51	2.646	-2.279	4.858	1.00	0.00
ATOM 759	1HD2	LEU	A	51	4.334	0.113	2.824	1.00	0.00
ATOM 760	2HD2	LEU	A	51	4.648	1.329	4.063	1.00	0.00
ATOM 761	3HD2	LEU	A	51	3.077	1.270	3.263	1.00	0.00
ATOM 762	N	PHE	A	52	2.752	3.524	5.979	1.00	0.00
ATOM 763	CA	PHE	A	52	3.382	4.755	5.517	1.00	0.00
ATOM 764	C	PHE	A	52	4.130	5.445	6.655	1.00	0.00
ATOM 765	O	PHE	A	52	5.184	6.044	6.444	1.00	0.00
ATOM 766	CB	PHE	A	52	2.332	5.702	4.934	1.00	0.00
ATOM 767	CG	PHE	A	52	1.493	5.080	3.853	1.00	0.00
ATOM 768	CD1	PHE	A	52	2.072	4.271	2.888	1.00	0.00
ATOM 769	CD2	PHE	A	52	0.127	5.304	3.803	1.00	0.00
ATOM 770	CE1	PHE	A	52	1.302	3.698	1.893	1.00	0.00
ATOM 771	CE2	PHE	A	52	-0.647	4.734	2.811	1.00	0.00
ATOM 772	CZ	PHE	A	52	-0.059	3.929	1.855	1.00	0.00
ATOM 773	H	PHE	A	52	1.783	3.509	6.120	1.00	0.00
ATOM 774	HA	PHE	A	52	4.089	4.496	4.744	1.00	0.00
ATOM 775	1HB	PHE	A	52	1.669	6.023	5.724	1.00	0.00
ATOM 776	2HB	PHE	A	52	2.828	6.565	4.515	1.00	0.00
ATOM 777	HD1	PHE	A	52	3.136	4.090	2.917	1.00	0.00
ATOM 778	HD2	PHE	A	52	-0.335	5.931	4.551	1.00	0.00
ATOM 779	HE1	PHE	A	52	1.765	3.070	1.145	1.00	0.00
ATOM 780	HE2	PHE	A	52	-1.711	4.916	2.783	1.00	0.00
ATOM 781	HZ	PHE	A	52	-0.662	3.482	1.078	1.00	0.00
ATOM 782	N	ARG	A	53	3.574	5.356	7.858	1.00	0.00
ATOM 783	CA	ARG	A	53	4.187	5.972	9.031	1.00	0.00

ATOM 784	C	ARG A	53	5.384	5.160	9.524	1.00	0.00
ATOM 785	O	ARG A	53	6.169	5.636	10.345	1.00	0.00
ATOM 786	CB	ARG A	53	3.157	6.115	10.152	1.00	0.00
ATOM 787	CG	ARG A	53	2.261	7.334	10.001	1.00	0.00
ATOM 788	CD	ARG A	53	2.815	8.531	10.759	1.00	0.00
ATOM 789	NE	ARG A	53	2.878	9.727	9.923	1.00	0.00
ATOM 790	CZ	ARG A	53	3.580	10.814	10.234	1.00	0.00
ATOM 791	NH1	ARG A	53	4.281	10.860	11.360	1.00	0.00
ATOM 792	NH2	ARG A	53	3.582	11.859	9.417	1.00	0.00
ATOM 793	H	ARG A	53	2.733	4.866	7.962	1.00	0.00
ATOM 794	HA	ARG A	53	4.530	6.955	8.745	1.00	0.00
ATOM 795	1HB	ARG A	53	2.531	5.235	10.165	1.00	0.00
ATOM 796	2HB	ARG A	53	3.677	6.191	11.095	1.00	0.00
ATOM 797	1HG	ARG A	53	2.188	7.588	8.955	1.00	0.00
ATOM 798	2HG	ARG A	53	1.281	7.097	10.387	1.00	0.00
ATOM 799	1HD	ARG A	53	2.178	8.731	11.607	1.00	0.00
ATOM 800	2HD	ARG A	53	3.811	8.295	11.107	1.00	0.00
ATOM 801	HE	ARG A	53	2.368	9.721	9.085	1.00	0.00
ATOM 802	1HH1	ARG A	53	4.285	10.075	11.980	1.00	0.00
ATOM 803	2HH1	ARG A	53	4.807	11.678	11.588	1.00	0.00
ATOM 804	1HH2	ARG A	53	3.055	11.830	8.567	1.00	0.00
ATOM 805	2HH2	ARG A	53	4.110	12.676	9.651	1.00	0.00
ATOM 806	N	ASN A	54	5.521	3.935	9.025	1.00	0.00
ATOM 807	CA	ASN A	54	6.625	3.069	9.421	1.00	0.00
ATOM 808	C	ASN A	54	7.622	2.899	8.278	1.00	0.00
ATOM 809	O	ASN A	54	8.275	1.862	8.161	1.00	0.00
ATOM 810	CB	ASN A	54	6.097	1.702	9.860	1.00	0.00

ATOM 811	CG	ASN A	54	5.248	1.784	11.113	1.00	0.00
ATOM 812	OD1	ASN A	54	5.579	2.505	12.055	1.00	0.00
ATOM 813	ND2	ASN A	54	4.146	1.044	11.131	1.00	0.00
ATOM 814	H	ASN A	54	4.867	3.605	8.374	1.00	0.00
ATOM 815	HA	ASN A	54	7.128	3.534	10.255	1.00	0.00
ATOM 816	1HB	ASN A	54	5.495	1.284	9.066	1.00	0.00
ATOM 817	2HB	ASN A	54	6.933	1.046	10.055	1.00	0.00
ATOM 818	1HD2	ASN A	54	3.945	0.495	10.345	1.00	0.00
ATOM 819	2HD2	ASN A	54	3.578	1.079	11.930	1.00	0.00
ATOM 820	N	SER A	55	7.734	3.923	7.440	1.00	0.00
ATOM 821	CA	SER A	55	8.652	3.886	6.307	1.00	0.00
ATOM 822	C	SER A	55	9.630	5.054	6.361	1.00	0.00
ATOM 823	O	SER A	55	9.470	5.976	7.161	1.00	0.00
ATOM 824	CB	SER A	55	7.872	3.922	4.991	1.00	0.00
ATOM 825	OG	SER A	55	7.484	5.244	4.662	1.00	0.00
ATOM 826	H	SER A	55	7.188	4.723	7.585	1.00	0.00
ATOM 827	HA	SER A	55	9.208	2.963	6.360	1.00	0.00
ATOM 828	1HB	SER A	55	8.493	3.534	4.196	1.00	0.00
ATOM 829	2HB	SER A	55	6.985	3.312	5.084	1.00	0.00
ATOM 830	HG	SER A	55	6.717	5.492	5.184	1.00	0.00
ATOM 831	N	SER A	56	10.647	5.008	5.505	1.00	0.00
ATOM 832	CA	SER A	56	11.653	6.061	5.456	1.00	0.00
ATOM 833	C	SER A	56	11.071	7.348	4.875	1.00	0.00
ATOM 834	O	SER A	56	11.530	8.445	5.191	1.00	0.00
ATOM 835	CB	SER A	56	12.854	5.610	4.623	1.00	0.00
ATOM 836	OG	SER A	56	13.918	6.541	4.713	1.00	0.00
ATOM 837	H	SER A	56	10.721	4.246	4.894	1.00	0.00

ATOM 838	HA	SER A	56	11.981	6.254	6.467	1.00	0.00
ATOM 839	1HB	SER A	56	13.200	4.653	4.983	1.00	0.00
ATOM 840	2HB	SER A	56	12.558	5.519	3.588	1.00	0.00
ATOM 841	HG	SER A	56	14.652	6.243	4.172	1.00	0.00
ATOM 842	N	ILE A	57	10.058	7.204	4.026	1.00	0.00
ATOM 843	CA	ILE A	57	9.415	8.354	3.403	1.00	0.00
ATOM 844	C	ILE A	57	8.196	8.805	4.203	1.00	0.00
ATOM 845	O	ILE A	57	7.145	9.110	3.636	1.00	0.00
ATOM 846	CB	ILE A	57	8.982	8.040	1.957	1.00	0.00
ATOM 847	CG1	ILE A	57	8.000	6.866	1.938	1.00	0.00
ATOM 848	CG2	ILE A	57	10.197	7.736	1.094	1.00	0.00
ATOM 849	CD1	ILE A	57	7.076	6.872	0.741	1.00	0.00
ATOM 850	H	ILE A	57	9.736	6.303	3.812	1.00	0.00
ATOM 851	HA	ILE A	57	10.133	9.162	3.373	1.00	0.00
ATOM 852	HB	ILE A	57	8.495	8.914	1.553	1.00	0.00
ATOM 853	1HG1	ILE A	57	8.557	5.940	1.922	1.00	0.00
ATOM 854	2HG1	ILE A	57	7.392	6.900	2.830	1.00	0.00
ATOM 855	1HG2	ILE A	57	9.942	6.979	0.367	1.00	0.00
ATOM 856	2HG2	ILE A	57	11.002	7.378	1.719	1.00	0.00
ATOM 857	3HG2	ILE A	57	10.511	8.634	0.583	1.00	0.00
ATOM 858	1HD1	ILE A	57	6.694	7.870	0.586	1.00	0.00
ATOM 859	2HD1	ILE A	57	6.253	6.194	0.919	1.00	0.00
ATOM 860	3HD1	ILE A	57	7.620	6.555	-0.136	1.00	0.00
ATOM 861	N	LYS A	58	8.343	8.846	5.523	1.00	0.00
ATOM 862	CA	LYS A	58	7.254	9.259	6.400	1.00	0.00
ATOM 863	C	LYS A	58	7.345	10.750	6.715	1.00	0.00
ATOM 864	O	LYS A	58	7.209	11.162	7.867	1.00	0.00



ATOM 865	CB	LYS A	58	7.283	8.449	7.697	1.00	0.00
ATOM 866	CG	LYS A	58	8.545	8.659	8.518	1.00	0.00
ATOM 867	CD	LYS A	58	8.582	7.746	9.734	1.00	0.00
ATOM 868	CE	LYS A	58	8.735	8.537	11.024	1.00	0.00
ATOM 869	NZ	LYS A	58	7.430	8.741	11.711	1.00	0.00
ATOM 870	H	LYS A	58	9.203	8.593	5.916	1.00	0.00
ATOM 871	HA	LYS A	58	6.323	9.068	5.887	1.00	0.00
ATOM 872	1HB	LYS A	58	6.434	8.731	8.304	1.00	0.00
ATOM 873	2HB	LYS A	58	7.208	7.400	7.455	1.00	0.00
ATOM 874	1HG	LYS A	58	9.404	8.449	7.898	1.00	0.00
ATOM 875	2HG	LYS A	58	8.581	9.687	8.848	1.00	0.00
ATOM 876	1HD	LYS A	58	7.662	7.183	9.778	1.00	0.00
ATOM 877	2HD	LYS A	58	9.417	7.068	9.637	1.00	0.00
ATOM 878	1HE	LYS A	58	9.399	7.999	11.684	1.00	0.00
ATOM 879	2HE	LYS A	58	9.165	9.501	10.791	1.00	0.00
ATOM 880	1HZ	LYS A	58	7.034	9.669	11.458	1.00	0.00
ATOM 881	2HZ	LYS A	58	7.558	8.701	12.741	1.00	0.00
ATOM 882	3HZ	LYS A	58	6.758	7.999	11.427	1.00	0.00
ATOM 883	N	SER A	59	7.577	11.555	5.682	1.00	0.00
ATOM 884	CA	SER A	59	7.687	12.999	5.850	1.00	0.00
ATOM 885	C	SER A	59	6.735	13.734	4.912	1.00	0.00
ATOM 886	O	SER A	59	6.076	14.695	5.311	1.00	0.00
ATOM 887	CB	SER A	59	9.124	13.453	5.593	1.00	0.00
ATOM 888	OG	SER A	59	9.965	13.132	6.687	1.00	0.00
ATOM 889	H	SER A	59	7.676	11.168	4.788	1.00	0.00
ATOM 890	HA	SER A	59	7.422	13.235	6.869	1.00	0.00
ATOM 891	1HB	SER A	59	9.503	12.962	4.709	1.00	0.00

ATOM 892	2HB	SER A	59	9.141	14.523	5.443	1.00	0.00
ATOM 893	HG	SER A	59	10.733	12.651	6.371	1.00	0.00
ATOM 894	N	TYR A	60	6.670	13.282	3.665	1.00	0.00
ATOM 895	CA	TYR A	60	5.799	13.902	2.673	1.00	0.00
ATOM 896	C	TYR A	60	4.580	13.031	2.386	1.00	0.00
ATOM 897	O	TYR A	60	3.510	13.538	2.048	1.00	0.00
ATOM 898	CB	TYR A	60	6.571	14.158	1.377	1.00	0.00
ATOM 899	CG	TYR A	60	7.823	14.983	1.568	1.00	0.00
ATOM 900	CD1	TYR A	60	9.081	14.419	1.398	1.00	0.00
ATOM 901	CD2	TYR A	60	7.747	16.324	1.920	1.00	0.00
ATOM 902	CE1	TYR A	60	10.228	15.170	1.573	1.00	0.00
ATOM 903	CE2	TYR A	60	8.890	17.082	2.096	1.00	0.00
ATOM 904	CZ	TYR A	60	10.127	16.500	1.921	1.00	0.00
ATOM 905	OH	TYR A	60	11.267	17.251	2.096	1.00	0.00
ATOM 906	H	TYR A	60	7.220	12.514	3.404	1.00	0.00
ATOM 907	HA	TYR A	60	5.464	14.848	3.072	1.00	0.00
ATOM 908	1HB	TYR A	60	6.860	13.211	0.945	1.00	0.00
ATOM 909	2HB	TYR A	60	5.929	14.683	0.683	1.00	0.00
ATOM 910	HD1	TYR A	60	9.157	13.377	1.125	1.00	0.00
ATOM 911	HD2	TYR A	60	6.777	16.778	2.057	1.00	0.00
ATOM 912	HE1	TYR A	60	11.198	14.713	1.435	1.00	0.00
ATOM 913	HE2	TYR A	60	8.810	18.123	2.369	1.00	0.00
ATOM 914	HH	TYR A	60	11.129	18.131	1.738	1.00	0.00
ATOM 915	N	PHE A	61	4.746	11.719	2.521	1.00	0.00
ATOM 916	CA	PHE A	61	3.654	10.784	2.273	1.00	0.00
ATOM 917	C	PHE A	61	2.458	11.090	3.169	1.00	0.00
ATOM 918	O	PHE A	61	2.591	11.183	4.389	1.00	0.00

ATOM 919	CB	PHE A	61	4.122	9.346	2.502	1.00	0.00
ATOM 920	CG	PHE A	61	3.231	8.319	1.863	1.00	0.00
ATOM 921	CD1	PHE A	61	3.700	7.522	0.831	1.00	0.00
ATOM 922	CD2	PHE A	61	1.926	8.150	2.295	1.00	0.00
ATOM 923	CE1	PHE A	61	2.883	6.577	0.240	1.00	0.00
ATOM 924	CE2	PHE A	61	1.103	7.208	1.708	1.00	0.00
ATOM 925	CZ	PHE A	61	1.582	6.420	0.680	1.00	0.00
ATOM 926	H	PHE A	61	5.622	11.373	2.791	1.00	0.00
ATOM 927	HA	PHE A	61	3.353	10.894	1.242	1.00	0.00
ATOM 928	1HB	PHE A	61	5.113	9.227	2.092	1.00	0.00
ATOM 929	2HB	PHE A	61	4.151	9.149	3.564	1.00	0.00
ATOM 930	HD1	PHE A	61	4.717	7.644	0.487	1.00	0.00
ATOM 931	HD2	PHE A	61	1.549	8.767	3.099	1.00	0.00
ATOM 932	HE1	PHE A	61	3.259	5.963	-0.564	1.00	0.00
ATOM 933	HE2	PHE A	61	0.087	7.087	2.053	1.00	0.00
ATOM 934	HZ	PHE A	61	0.941	5.682	0.219	1.00	0.00
ATOM 935	N	SER A	62	1.290	11.244	2.553	1.00	0.00
ATOM 936	CA	SER A	62	0.069	11.540	3.294	1.00	0.00
ATOM 937	C	SER A	62	-0.748	10.272	3.525	1.00	0.00
ATOM 938	O	SER A	62	-0.938	9.844	4.662	1.00	0.00
ATOM 939	CB	SER A	62	-0.771	12.572	2.540	1.00	0.00
ATOM 940	OG	SER A	62	-1.100	12.112	1.241	1.00	0.00
ATOM 941	H	SER A	62	1.249	11.158	1.578	1.00	0.00
ATOM 942	HA	SER A	62	0.354	11.949	4.251	1.00	0.00
ATOM 943	1HB	SER A	62	-1.686	12.755	3.085	1.00	0.00
ATOM 944	2HB	SER A	62	-0.214	13.493	2.453	1.00	0.00
ATOM 945	HG	SER A	62	-0.438	12.418	0.616	1.00	0.00

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ATOM 946	N	ASP	A	63	-1.229	9.677	2.437	1.00	0.00
ATOM 947	CA	ASP	A	63	-2.025	8.459	2.524	1.00	0.00
ATOM 948	C	ASP	A	63	-2.251	7.855	1.141	1.00	0.00
ATOM 949	O	ASP	A	63	-1.693	8.324	0.148	1.00	0.00
ATOM 950	CB	ASP	A	63	-3.370	8.752	3.195	1.00	0.00
ATOM 951	CG	ASP	A	63	-3.468	8.146	4.581	1.00	0.00
ATOM 952	OD1	ASP	A	63	-2.411	7.869	5.184	1.00	0.00
ATOM 953	OD2	ASP	A	63	-4.603	7.950	5.065	1.00	0.00
ATOM 954	H	ASP	A	63	-1.044	10.066	1.558	1.00	0.00
ATOM 955	HA	ASP	A	63	-1.479	7.749	3.127	1.00	0.00
ATOM 956	1HB	ASP	A	63	-3.496	9.821	3.281	1.00	0.00
ATOM 957	2HB	ASP	A	63	-4.167	8.347	2.587	1.00	0.00
ATOM 958	N	CYS	A	64	-3.074	6.814	1.084	1.00	0.00
ATOM 959	CA	CYS	A	64	-3.376	6.144	-0.175	1.00	0.00
ATOM 960	C	CYS	A	64	-4.859	6.263	-0.511	1.00	0.00
ATOM 961	O	CYS	A	64	-5.687	6.501	0.367	1.00	0.00
ATOM 962	CB	CYS	A	64	-2.971	4.670	-0.103	1.00	0.00
ATOM 963	SG	CYS	A	64	-2.094	4.072	-1.566	1.00	0.00
ATOM 964	H	CYS	A	64	-3.488	6.486	1.910	1.00	0.00
ATOM 965	HA	CYS	A	64	-2.803	6.626	-0.953	1.00	0.00
ATOM 966	1HB	CYS	A	64	-2.324	4.524	0.749	1.00	0.00
ATOM 967	2HB	CYS	A	64	-3.859	4.065	0.019	1.00	0.00
ATOM 968	HG	CYS	A	64	-1.289	4.587	-1.659	1.00	0.00
ATOM 969	N	GLN	A	65	-5.186	6.095	-1.788	1.00	0.00
ATOM 970	CA	GLN	A	65	-6.569	6.184	-2.240	1.00	0.00
ATOM 971	C	GLN	A	65	-6.992	4.900	-2.948	1.00	0.00
ATOM 972	O	GLN	A	65	-6.739	4.724	-4.139	1.00	0.00

ATOM 973	CB	GLN A	65	-6.747	7.378	-3.179	1.00	0.00
ATOM 974	CG	GLN A	65	-8.198	7.783	-3.382	1.00	0.00
ATOM 975	CD	GLN A	65	-8.353	8.919	-4.373	1.00	0.00
ATOM 976	OE1	GLN A	65	-8.023	10.068	-4.076	1.00	0.00
ATOM 977	NE2	GLN A	65	-8.858	8.604	-5.561	1.00	0.00
ATOM 978	H	GLN A	65	-4.480	5.908	-2.442	1.00	0.00
ATOM 979	HA	GLN A	65	-7.194	6.324	-1.371	1.00	0.00
ATOM 980	1HB	GLN A	65	-6.213	8.223	-2.771	1.00	0.00
ATOM 981	2HB	GLN A	65	-6.327	7.130	-4.143	1.00	0.00
ATOM 982	1HG	GLN A	65	-8.748	6.930	-3.747	1.00	0.00
ATOM 983	2HG	GLN A	65	-8.607	8.095	-2.432	1.00	0.00
ATOM 984	1HE2	GLN A	65	-9.098	7.669	-5.727	1.00	0.00
ATOM 985	2HE2	GLN A	65	-8.968	9.319	-6.221	1.00	0.00
ATOM 986	N	VAL A	66	-7.637	4.007	-2.205	1.00	0.00
ATOM 987	CA	VAL A	66	-8.096	2.740	-2.762	1.00	0.00
ATOM 988	C	VAL A	66	-9.229	2.958	-3.759	1.00	0.00
ATOM 989	O	VAL A	66	-10.389	3.112	-3.376	1.00	0.00
ATOM 990	CB	VAL A	66	-8.568	1.778	-1.653	1.00	0.00
ATOM 991	CG1	VAL A	66	-9.707	2.394	-0.855	1.00	0.00
ATOM 992	CG2	VAL A	66	-8.983	0.438	-2.244	1.00	0.00
ATOM 993	H	VAL A	66	-7.810	4.204	-1.261	1.00	0.00
ATOM 994	HA	VAL A	66	-7.262	2.282	-3.275	1.00	0.00
ATOM 995	HB	VAL A	66	-7.741	1.606	-0.979	1.00	0.00
ATOM 996	1HG1	VAL A	66	-9.579	2.161	0.193	1.00	0.00
ATOM 997	2HG1	VAL A	66	-10.648	1.990	-1.199	1.00	0.00
ATOM 998	3HG1	VAL A	66	-9.703	3.464	-0.990	1.00	0.00
ATOM 999	1HG2	VAL A	66	-8.641	-0.361	-1.602	1.00	0.00

ATOM 1000	2HG2	VAL	A	66	-8.544	0.324	-3.224	1.00	0.00
ATOM 1001	3HG2	VAL	A	66	-10.060	0.398	-2.325	1.00	0.00
ATOM 1002	N	LEU	A	67	-8.885	2.972	-5.043	1.00	0.00
ATOM 1003	CA	LEU	A	67	-9.872	3.173	-6.097	1.00	0.00
ATOM 1004	C	LEU	A	67	-10.915	2.061	-6.083	1.00	0.00
ATOM 1005	O	LEU	A	67	-12.095	2.306	-5.838	1.00	0.00
ATOM 1006	CB	LEU	A	67	-9.185	3.228	-7.463	1.00	0.00
ATOM 1007	CG	LEU	A	67	-7.962	4.144	-7.537	1.00	0.00
ATOM 1008	CD1	LEU	A	67	-7.412	4.185	-8.955	1.00	0.00
ATOM 1009	CD2	LEU	A	67	-8.316	5.544	-7.060	1.00	0.00
ATOM 1010	H	LEU	A	67	-7.944	2.845	-5.286	1.00	0.00
ATOM 1011	HA	LEU	A	67	-10.365	4.116	-5.914	1.00	0.00
ATOM 1012	1HB	LEU	A	67	-8.876	2.227	-7.727	1.00	0.00
ATOM 1013	2HB	LEU	A	67	-9.905	3.569	-8.191	1.00	0.00
ATOM 1014	HG	LEU	A	67	-7.189	3.755	-6.892	1.00	0.00
ATOM 1015	1HD1	LEU	A	67	-6.964	3.232	-9.195	1.00	0.00
ATOM 1016	2HD1	LEU	A	67	-6.666	4.962	-9.028	1.00	0.00
ATOM 1017	3HD1	LEU	A	67	-8.215	4.391	-9.647	1.00	0.00
ATOM 1018	1HD2	LEU	A	67	-8.074	5.639	-6.011	1.00	0.00
ATOM 1019	2HD2	LEU	A	67	-9.372	5.718	-7.203	1.00	0.00
ATOM 1020	3HD2	LEU	A	67	-7.753	6.271	-7.626	1.00	0.00
ATOM 1021	N	ALA	A	68	-10.470	0.837	-6.349	1.00	0.00
ATOM 1022	CA	ALA	A	68	-11.365	-0.313	-6.367	1.00	0.00
ATOM 1023	C	ALA	A	68	-10.581	-1.619	-6.418	1.00	0.00
ATOM 1024	O	ALA	A	68	-9.349	-1.615	-6.406	1.00	0.00
ATOM 1025	CB	ALA	A	68	-12.318	-0.221	-7.550	1.00	0.00
ATOM 1026	H	ALA	A	68	-9.518	0.704	-6.536	1.00	0.00

ATOM 1027	HA	ALA	A	68	-11.953	-0.293	-5.461	1.00	0.00
ATOM 1028	1HB	ALA	A	68	-11.760	0.013	-8.444	1.00	0.00
ATOM 1029	2HB	ALA	A	68	-13.046	0.555	-7.366	1.00	0.00
ATOM 1030	3HB	ALA	A	68	-12.824	-1.166	-7.679	1.00	0.00
ATOM 1031	N	PHE	A	69	-11.301	-2.734	-6.475	1.00	0.00
ATOM 1032	CA	PHE	A	69	-10.672	-4.049	-6.529	1.00	0.00
ATOM 1033	C	PHE	A	69	-10.897	-4.705	-7.887	1.00	0.00
ATOM 1034	O	PHE	A	69	-12.000	-4.658	-8.435	1.00	0.00
ATOM 1035	CB	PHE	A	69	-11.220	-4.946	-5.418	1.00	0.00
ATOM 1036	CG	PHE	A	69	-10.932	-4.434	-4.036	1.00	0.00
ATOM 1037	CD1	PHE	A	69	-11.965	-4.089	-3.180	1.00	0.00
ATOM 1038	CD2	PHE	A	69	-9.626	-4.299	-3.593	1.00	0.00
ATOM 1039	CE1	PHE	A	69	-11.701	-3.618	-1.908	1.00	0.00
ATOM 1040	CE2	PHE	A	69	-9.356	-3.829	-2.322	1.00	0.00
ATOM 1041	CZ	PHE	A	69	-10.395	-3.488	-1.478	1.00	0.00
ATOM 1042	H	PHE	A	69	-12.279	-2.672	-6.482	1.00	0.00
ATOM 1043	HA	PHE	A	69	-9.610	-3.914	-6.380	1.00	0.00
ATOM 1044	1HB	PHE	A	69	-12.292	-5.024	-5.525	1.00	0.00
ATOM 1045	2HB	PHE	A	69	-10.783	-5.928	-5.509	1.00	0.00
ATOM 1046	HD1	PHE	A	69	-12.987	-4.191	-3.515	1.00	0.00
ATOM 1047	HD2	PHE	A	69	-8.812	-4.565	-4.252	1.00	0.00
ATOM 1048	HE1	PHE	A	69	-12.516	-3.352	-1.250	1.00	0.00
ATOM 1049	HE2	PHE	A	69	-8.334	-3.727	-1.989	1.00	0.00
ATOM 1050	HZ	PHE	A	69	-10.187	-3.120	-0.484	1.00	0.00
ATOM 1051	N	ARG	A	70	-9.848	-5.316	-8.425	1.00	0.00
ATOM 1052	CA	ARG	A	70	-9.932	-5.982	-9.720	1.00	0.00
ATOM 1053	C	ARG	A	70	-10.006	-7.496	-9.548	1.00	0.00

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ATOM	1054	O	ARG	A	70	-9.557	-8.039	-8.539	1.00	0.00
ATOM	1055	CB	ARG	A	70	-8.728	-5.613	-10.587	1.00	0.00
ATOM	1056	CG	ARG	A	70	-8.639	-4.130	-10.905	1.00	0.00
ATOM	1057	CD	ARG	A	70	-9.737	-3.698	-11.864	1.00	0.00
ATOM	1058	NE	ARG	A	70	-9.610	-4.343	-13.169	1.00	0.00
ATOM	1059	CZ	ARG	A	70	-10.207	-3.905	-14.274	1.00	0.00
ATOM	1060	NH1	ARG	A	70	-10.975	-2.823	-14.237	1.00	0.00
ATOM	1061	NH2	ARG	A	70	-10.038	-4.550	-15.420	1.00	0.00
ATOM	1062	H	ARG	A	70	-8.996	-5.320	-7.941	1.00	0.00
ATOM	1063	HA	ARG	A	70	-10.834	-5.643	-10.208	1.00	0.00
ATOM	1064	1HB	ARG	A	70	-7.825	-5.903	-10.070	1.00	0.00
ATOM	1065	2HB	ARG	A	70	-8.790	-6.157	-11.518	1.00	0.00
ATOM	1066	1HG	ARG	A	70	-8.735	-3.568	-9.988	1.00	0.00
ATOM	1067	2HG	ARG	A	70	-7.679	-3.925	-11.356	1.00	0.00
ATOM	1068	1HD	ARG	A	70	-10.694	-3.960	-11.436	1.00	0.00
ATOM	1069	2HD	ARG	A	70	-9.684	-2.628	-11.994	1.00	0.00
ATOM	1070	HE	ARG	A	70	-9.048	-5.144	-13.224	1.00	0.00
ATOM	1071	1HH1	ARG	A	70	-11.107	-2.332	-13.377	1.00	0.00
ATOM	1072	2HH1	ARG	A	70	-11.421	-2.498	-15.071	1.00	0.00
ATOM	1073	1HH2	ARG	A	70	-9.460	-5.366	-15.453	1.00	0.00
ATOM	1074	2HH2	ARG	A	70	-10.487	-4.221	-16.251	1.00	0.00
ATOM	1075	N	SER	A	71	-10.575	-8.172	-10.542	1.00	0.00
ATOM	1076	CA	SER	A	71	-10.707	-9.624	-10.500	1.00	0.00
ATOM	1077	C	SER	A	71	-9.860	-10.277	-11.587	1.00	0.00
ATOM	1078	O	SER	A	71	-10.164	-10.168	-12.775	1.00	0.00
ATOM	1079	CB	SER	A	71	-12.173	-10.028	-10.667	1.00	0.00
ATOM	1080	OG	SER	A	71	-12.315	-11.438	-10.689	1.00	0.00



ATOM 1081	H	SER A	71	-10.914	-7.683	-11.320	1.00	0.00
ATOM 1082	HA	SER A	71	-10.358	-9.961	-9.536	1.00	0.00
ATOM 1083	1HB	SER A	71	-12.748	-9.634	-9.843	1.00	0.00
ATOM 1084	2HB	SER A	71	-12.552	-9.625	-11.596	1.00	0.00
ATOM 1085	HG	SER A	71	-12.294	-11.748	-11.598	1.00	0.00
ATOM 1086	N	VAL A	72	-8.795	-10.956	-11.173	1.00	0.00
ATOM 1087	CA	VAL A	72	-7.904	-11.627	-12.111	1.00	0.00
ATOM 1088	C	VAL A	72	-8.601	-12.804	-12.787	1.00	0.00
ATOM 1089	O	VAL A	72	-9.485	-13.432	-12.206	1.00	0.00
ATOM 1090	CB	VAL A	72	-6.630	-12.135	-11.410	1.00	0.00
ATOM 1091	CG1	VAL A	72	-5.805	-10.968	-10.891	1.00	0.00
ATOM 1092	CG2	VAL A	72	-6.985	-13.090	-10.279	1.00	0.00
ATOM 1093	H	VAL A	72	-8.606	-11.008	-10.212	1.00	0.00
ATOM 1094	HA	VAL A	72	-7.614	-10.912	-12.865	1.00	0.00
ATOM 1095	HB	VAL A	72	-6.035	-12.673	-12.134	1.00	0.00
ATOM 1096	1HG1	VAL A	72	-6.454	-10.130	-10.686	1.00	0.00
ATOM 1097	2HG1	VAL A	72	-5.076	-10.683	-11.635	1.00	0.00
ATOM 1098	3HG1	VAL A	72	-5.297	-11.260	-9.984	1.00	0.00
ATOM 1099	1HG2	VAL A	72	-6.079	-13.480	-9.840	1.00	0.00
ATOM 1100	2HG2	VAL A	72	-7.576	-13.906	-10.670	1.00	0.00
ATOM 1101	3HG2	VAL A	72	-7.552	-12.562	-9.528	1.00	0.00
ATOM 1102	N	SER A	73	-8.196	-13.094	-14.019	1.00	0.00
ATOM 1103	CA	SER A	73	-8.782	-14.196	-14.777	1.00	0.00
ATOM 1104	C	SER A	73	-7.760	-15.306	-15.000	1.00	0.00
ATOM 1105	O	SER A	73	-7.166	-15.409	-16.073	1.00	0.00
ATOM 1106	CB	SER A	73	-9.308	-13.693	-16.122	1.00	0.00
ATOM 1107	OG	SER A	73	-8.250	-13.234	-16.945	1.00	0.00

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ATOM 1108	H	SER A	73	-7.487	-12.556	-14.429	1.00	0.00
ATOM 1109	HA	SER A	73	-9.606	-14.591	-14.202	1.00	0.00
ATOM 1110	1HB	SER A	73	-9.819	-14.497	-16.630	1.00	0.00
ATOM 1111	2HB	SER A	73	-9.997	-12.878	-15.955	1.00	0.00
ATOM 1112	N	ASN A	74	-7.562	-16.134	-13.980	1.00	0.00
ATOM 1113	CA	ASN A	74	-6.613	-17.237	-14.064	1.00	0.00
ATOM 1114	C	ASN A	74	-6.862	-18.256	-12.957	1.00	0.00
ATOM 1115	O	ASN A	74	-7.255	-19.392	-13.222	1.00	0.00
ATOM 1116	CB	ASN A	74	-5.179	-16.711	-13.975	1.00	0.00
ATOM 1117	CG	ASN A	74	-4.157	-17.733	-14.434	1.00	0.00
ATOM 1118	OD1	ASN A	74	-4.435	-18.932	-14.471	1.00	0.00
ATOM 1119	ND2	ASN A	74	-2.967	-17.263	-14.787	1.00	0.00
ATOM 1120	H	ASN A	74	-8.066	-16.000	-13.151	1.00	0.00
ATOM 1121	HA	ASN A	74	-6.750	-17.721	-15.020	1.00	0.00
ATOM 1122	1HB	ASN A	74	-5.085	-15.832	-14.596	1.00	0.00
ATOM 1123	2HB	ASN A	74	-4.962	-16.447	-12.950	1.00	0.00
ATOM 1124	1HD2	ASN A	74	-2.817	-16.296	-14.732	1.00	0.00
ATOM 1125	2HD2	ASN A	74	-2.288	-17.901	-15.088	1.00	0.00
ATOM 1126	N	ASN A	75	-6.633	-17.840	-11.716	1.00	0.00
ATOM 1127	CA	ASN A	75	-6.834	-18.716	-10.567	1.00	0.00
ATOM 1128	C	ASN A	75	-8.178	-18.440	-9.898	1.00	0.00
ATOM 1129	O	ASN A	75	-8.753	-19.317	-9.254	1.00	0.00
ATOM 1130	CB	ASN A	75	-5.699	-18.533	-9.556	1.00	0.00
ATOM 1131	CG	ASN A	75	-5.139	-19.855	-9.070	1.00	0.00
ATOM 1132	OD1	ASN A	75	-5.071	-20.828	-9.822	1.00	0.00
ATOM 1133	ND2	ASN A	75	-4.736	-19.897	-7.806	1.00	0.00
ATOM 1134	H	ASN A	75	-6.322	-16.923	-11.569	1.00	0.00

ATOM	1135	HA	ASN	A	75	-6.825	-19.735	-10.922	1.00	0.00
ATOM	1136	1HB	ASN	A	75	-4.899	-17.974	-10.020	1.00	0.00
ATOM	1137	2HB	ASN	A	75	-6.069	-17.983	-8.703	1.00	0.00
ATOM	1138	1HD2	ASN	A	75	-4.820	-19.085	-7.265	1.00	0.00
ATOM	1139	2HD2	ASN	A	75	-4.369	-20.741	-7.464	1.00	0.00
ATOM	1140	N	ASN	A	76	-8.674	-17.215	-10.056	1.00	0.00
ATOM	1141	CA	ASN	A	76	-9.951	-16.825	-9.467	1.00	0.00
ATOM	1142	C	ASN	A	76	-9.879	-16.856	-7.943	1.00	0.00
ATOM	1143	O	ASN	A	76	-10.883	-17.093	-7.271	1.00	0.00
ATOM	1144	CB	ASN	A	76	-11.069	-17.746	-9.958	1.00	0.00
ATOM	1145	CG	ASN	A	76	-12.339	-16.987	-10.290	1.00	0.00
ATOM	1146	OD1	ASN	A	76	-13.382	-17.199	-9.671	1.00	0.00
ATOM	1147	ND2	ASN	A	76	-12.257	-16.097	-11.273	1.00	0.00
ATOM	1148	H	ASN	A	76	-8.169	-16.559	-10.580	1.00	0.00
ATOM	1149	HA	ASN	A	76	-10.164	-15.814	-9.784	1.00	0.00
ATOM	1150	1HB	ASN	A	76	-10.738	-18.262	-10.847	1.00	0.00
ATOM	1151	2HB	ASN	A	76	-11.294	-18.471	-9.190	1.00	0.00
ATOM	1152	1HD2	ASN	A	76	-11.394	-15.982	-11.723	1.00	0.00
ATOM	1153	2HD2	ASN	A	76	-13.064	-15.593	-11.509	1.00	0.00
ATOM	1154	N	ASN	A	77	-8.688	-16.615	-7.406	1.00	0.00
ATOM	1155	CA	ASN	A	77	-8.488	-16.614	-5.961	1.00	0.00
ATOM	1156	C	ASN	A	77	-7.630	-15.428	-5.528	1.00	0.00
ATOM	1157	O	ASN	A	77	-7.001	-15.459	-4.471	1.00	0.00
ATOM	1158	CB	ASN	A	77	-7.831	-17.923	-5.517	1.00	0.00
ATOM	1159	CG	ASN	A	77	-8.244	-18.329	-4.115	1.00	0.00
ATOM	1160	OD1	ASN	A	77	-7.399	-18.557	-3.249	1.00	0.00
ATOM	1161	ND2	ASN	A	77	-9.549	-18.422	-3.886	1.00	0.00

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ATOM	1162	H	ASN	A	77	-7.926	-16.431	-7.994	1.00	0.00
ATOM	1163	HA	ASN	A	77	-9.457	-16.531	-5.493	1.00	0.00
ATOM	1164	1HB	ASN	A	77	-8.116	-18.710	-6.197	1.00	0.00
ATOM	1165	2HB	ASN	A	77	-6.758	-17.804	-5.537	1.00	0.00
ATOM	1166	1HD2	ASN	A	77	-10.163	-18.225	-4.623	1.00	0.00
ATOM	1167	2HD2	ASN	A	77	-9.843	-18.682	-2.989	1.00	0.00
ATOM	1168	N	HIS	A	78	-7.610	-14.382	-6.350	1.00	0.00
ATOM	1169	CA	HIS	A	78	-6.829	-13.187	-6.049	1.00	0.00
ATOM	1170	C	HIS	A	78	-7.672	-11.930	-6.234	1.00	0.00
ATOM	1171	O	HIS	A	78	-8.888	-12.008	-6.411	1.00	0.00
ATOM	1172	CB	HIS	A	78	-5.590	-13.122	-6.945	1.00	0.00
ATOM	1173	CG	HIS	A	78	-4.863	-14.426	-7.060	1.00	0.00
ATOM	1174	ND1	HIS	A	78	-4.320	-14.883	-8.242	1.00	0.00
ATOM	1175	CD2	HIS	A	78	-4.586	-15.372	-6.131	1.00	0.00
ATOM	1176	CE1	HIS	A	78	-3.744	-16.054	-8.037	1.00	0.00
ATOM	1177	NE2	HIS	A	78	-3.891	-16.373	-6.765	1.00	0.00
ATOM	1178	H	HIS	A	78	-8.133	-14.413	-7.178	1.00	0.00
ATOM	1179	HA	HIS	A	78	-6.514	-13.247	-5.018	1.00	0.00
ATOM	1180	1HB	HIS	A	78	-5.888	-12.820	-7.937	1.00	0.00
ATOM	1181	2HB	HIS	A	78	-4.903	-12.390	-6.544	1.00	0.00
ATOM	1182	HD1	HIS	A	78	-4.353	-14.419	-9.105	1.00	0.00
ATOM	1183	HD2	HIS	A	78	-4.862	-15.345	-5.086	1.00	0.00
ATOM	1184	HE1	HIS	A	78	-3.238	-16.649	-8.783	1.00	0.00
ATOM	1185	HE2	HIS	A	78	-3.483	-17.148	-6.326	1.00	0.00
ATOM	1186	N	THR	A	79	-7.020	-10.772	-6.194	1.00	0.00
ATOM	1187	CA	THR	A	79	-7.713	-9.499	-6.359	1.00	0.00
ATOM	1188	C	THR	A	79	-6.726	-8.374	-6.654	1.00	0.00

ATOM	1189	O	THR	A	79	-5.883	-8.041	-5.822	1.00	0.00
ATOM	1190	CB	THR	A	79	-8.525	-9.171	-5.102	1.00	0.00
ATOM	1191	OG1	THR	A	79	-9.536	-10.141	-4.892	1.00	0.00
ATOM	1192	CG2	THR	A	79	-9.200	-7.816	-5.155	1.00	0.00
ATOM	1193	H	THR	A	79	-6.051	-10.774	-6.050	1.00	0.00
ATOM	1194	HA	THR	A	79	-8.388	-9.597	-7.196	1.00	0.00
ATOM	1195	HB	THR	A	79	-7.865	-9.179	-4.246	1.00	0.00
ATOM	1196	HG1	THR	A	79	-9.150	-10.925	-4.493	1.00	0.00
ATOM	1197	1HG2	THR	A	79	-8.449	-7.040	-5.127	1.00	0.00
ATOM	1198	2HG2	THR	A	79	-9.860	-7.709	-4.308	1.00	0.00
ATOM	1199	3HG2	THR	A	79	-9.769	-7.733	-6.070	1.00	0.00
ATOM	1200	N	GLY	A	80	-6.840	-7.792	-7.843	1.00	0.00
ATOM	1201	CA	GLY	A	80	-5.955	-6.708	-8.228	1.00	0.00
ATOM	1202	C	GLY	A	80	-6.288	-5.411	-7.517	1.00	0.00
ATOM	1203	O	GLY	A	80	-7.352	-4.831	-7.737	1.00	0.00
ATOM	1204	H	GLY	A	80	-7.534	-8.099	-8.464	1.00	0.00
ATOM	1205	1HA	GLY	A	80	-4.939	-6.986	-7.991	1.00	0.00
ATOM	1206	2HA	GLY	A	80	-6.036	-6.552	-9.293	1.00	0.00
ATOM	1207	N	VAL	A	81	-5.380	-4.956	-6.660	1.00	0.00
ATOM	1208	CA	VAL	A	81	-5.587	-3.720	-5.913	1.00	0.00
ATOM	1209	C	VAL	A	81	-5.344	-2.497	-6.792	1.00	0.00
ATOM	1210	O	VAL	A	81	-4.360	-2.433	-7.528	1.00	0.00
ATOM	1211	CB	VAL	A	81	-4.665	-3.644	-4.681	1.00	0.00
ATOM	1212	CG1	VAL	A	81	-4.968	-2.402	-3.856	1.00	0.00
ATOM	1213	CG2	VAL	A	81	-4.803	-4.901	-3.835	1.00	0.00
ATOM	1214	H	VAL	A	81	-4.552	-5.463	-6.526	1.00	0.00
ATOM	1215	HA	VAL	A	81	-6.611	-3.706	-5.571	1.00	0.00

ATOM 1216	HB	VAL	A	81	-3.643	-3.580	-5.026	1.00	0.00
ATOM 1217	1HG1	VAL	A	81	-6.001	-2.119	-3.997	1.00	0.00
ATOM 1218	2HG1	VAL	A	81	-4.327	-1.592	-4.174	1.00	0.00
ATOM 1219	3HG1	VAL	A	81	-4.792	-2.611	-2.811	1.00	0.00
ATOM 1220	1HG2	VAL	A	81	-5.734	-4.867	-3.289	1.00	0.00
ATOM 1221	2HG2	VAL	A	81	-3.979	-4.958	-3.139	1.00	0.00
ATOM 1222	3HG2	VAL	A	81	-4.791	-5.770	-4.476	1.00	0.00
ATOM 1223	N	ASP	A	82	-6.246	-1.526	-6.701	1.00	0.00
ATOM 1224	CA	ASP	A	82	-6.132	-0.297	-7.478	1.00	0.00
ATOM 1225	C	ASP	A	82	-6.140	0.918	-6.558	1.00	0.00
ATOM 1226	O	ASP	A	82	-7.174	1.558	-6.366	1.00	0.00
ATOM 1227	CB	ASP	A	82	-7.277	-0.198	-8.489	1.00	0.00
ATOM 1228	CG	ASP	A	82	-6.831	0.395	-9.810	1.00	0.00
ATOM 1229	OD1	ASP	A	82	-7.335	-0.052	-10.862	1.00	0.00
ATOM 1230	OD2	ASP	A	82	-5.978	1.307	-9.795	1.00	0.00
ATOM 1231	H	ASP	A	82	-7.006	-1.636	-6.092	1.00	0.00
ATOM 1232	HA	ASP	A	82	-5.193	-0.326	-8.010	1.00	0.00
ATOM 1233	1HB	ASP	A	82	-7.672	-1.186	-8.674	1.00	0.00
ATOM 1234	2HB	ASP	A	82	-8.058	0.426	-8.079	1.00	0.00
ATOM 1235	N	SER	A	83	-4.981	1.226	-5.985	1.00	0.00
ATOM 1236	CA	SER	A	83	-4.853	2.361	-5.078	1.00	0.00
ATOM 1237	C	SER	A	83	-4.019	3.475	-5.701	1.00	0.00
ATOM 1238	O	SER	A	83	-3.552	3.356	-6.834	1.00	0.00
ATOM 1239	CB	SER	A	83	-4.229	1.909	-3.755	1.00	0.00
ATOM 1240	OG	SER	A	83	-3.357	0.808	-3.948	1.00	0.00
ATOM 1241	H	SER	A	83	-4.192	0.676	-6.175	1.00	0.00
ATOM 1242	HA	SER	A	83	-5.845	2.740	-4.883	1.00	0.00

ATOM	1243	1HB	SER	A	83	-3.666	2.724	-3.328	1.00	0.00
ATOM	1244	2HB	SER	A	83	-5.012	1.616	-3.071	1.00	0.00
ATOM	1245	HG	SER	A	83	-2.859	0.930	-4.760	1.00	0.00
ATOM	1246	N	LEU	A	84	-3.840	4.561	-4.955	1.00	0.00
ATOM	1247	CA	LEU	A	84	-3.067	5.703	-5.434	1.00	0.00
ATOM	1248	C	LEU	A	84	-2.160	6.252	-4.337	1.00	0.00
ATOM	1249	O	LEU	A	84	-2.635	6.826	-3.357	1.00	0.00
ATOM	1250	CB	LEU	A	84	-4.012	6.803	-5.930	1.00	0.00
ATOM	1251	CG	LEU	A	84	-3.347	7.946	-6.701	1.00	0.00
ATOM	1252	CD1	LEU	A	84	-2.530	8.823	-5.766	1.00	0.00
ATOM	1253	CD2	LEU	A	84	-2.474	7.399	-7.820	1.00	0.00
ATOM	1254	H	LEU	A	84	-4.241	4.598	-4.061	1.00	0.00
ATOM	1255	HA	LEU	A	84	-2.457	5.368	-6.259	1.00	0.00
ATOM	1256	1HB	LEU	A	84	-4.753	6.347	-6.571	1.00	0.00
ATOM	1257	2HB	LEU	A	84	-4.517	7.225	-5.072	1.00	0.00
ATOM	1258	HG	LEU	A	84	-4.115	8.562	-7.147	1.00	0.00
ATOM	1259	1HD1	LEU	A	84	-2.597	9.851	-6.087	1.00	0.00
ATOM	1260	2HD1	LEU	A	84	-1.498	8.506	-5.785	1.00	0.00
ATOM	1261	3HD1	LEU	A	84	-2.914	8.734	-4.760	1.00	0.00
ATOM	1262	1HD2	LEU	A	84	-3.074	6.787	-8.478	1.00	0.00
ATOM	1263	2HD2	LEU	A	84	-1.681	6.803	-7.397	1.00	0.00
ATOM	1264	3HD2	LEU	A	84	-2.050	8.219	-8.380	1.00	0.00
ATOM	1265	N	CYS	A	85	-0.853	6.082	-4.511	1.00	0.00
ATOM	1266	CA	CYS	A	85	0.115	6.573	-3.536	1.00	0.00
ATOM	1267	C	CYS	A	85	0.097	8.098	-3.493	1.00	0.00
ATOM	1268	O	CYS	A	85	0.948	8.756	-4.091	1.00	0.00
ATOM	1269	CB	CYS	A	85	1.522	6.072	-3.881	1.00	0.00

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ATOM	1270	SG	CYS	A	85	1.822	4.350	-3.419	1.00	0.00
ATOM	1271	H	CYS	A	85	-0.532	5.622	-5.316	1.00	0.00
ATOM	1272	HA	CYS	A	85	-0.167	6.192	-2.566	1.00	0.00
ATOM	1273	1HB	CYS	A	85	1.676	6.157	-4.945	1.00	0.00
ATOM	1274	2HB	CYS	A	85	2.251	6.681	-3.367	1.00	0.00
ATOM	1275	HG	CYS	A	85	2.244	4.344	-2.557	1.00	0.00
ATOM	1276	N	ASN	A	86	-0.887	8.653	-2.790	1.00	0.00
ATOM	1277	CA	ASN	A	86	-1.028	10.101	-2.676	1.00	0.00
ATOM	1278	C	ASN	A	86	0.107	10.708	-1.857	1.00	0.00
ATOM	1279	O	ASN	A	86	0.528	10.146	-0.847	1.00	0.00
ATOM	1280	CB	ASN	A	86	-2.374	10.450	-2.038	1.00	0.00
ATOM	1281	CG	ASN	A	86	-3.471	10.642	-3.067	1.00	0.00
ATOM	1282	OD1	ASN	A	86	-3.387	11.521	-3.924	1.00	0.00
ATOM	1283	ND2	ASN	A	86	-4.509	9.819	-2.986	1.00	0.00
ATOM	1284	H	ASN	A	86	-1.538	8.073	-2.342	1.00	0.00
ATOM	1285	HA	ASN	A	86	-0.997	10.515	-3.673	1.00	0.00
ATOM	1286	1HB	ASN	A	86	-2.667	9.654	-1.371	1.00	0.00
ATOM	1287	2HB	ASN	A	86	-2.270	11.367	-1.474	1.00	0.00
ATOM	1288	1HD2	ASN	A	86	-4.510	9.141	-2.277	1.00	0.00
ATOM	1289	2HD2	ASN	A	86	-5.233	9.920	-3.639	1.00	0.00
ATOM	1290	N	PHE	A	87	0.592	11.864	-2.302	1.00	0.00
ATOM	1291	CA	PHE	A	87	1.674	12.557	-1.611	1.00	0.00
ATOM	1292	C	PHE	A	87	1.308	14.016	-1.362	1.00	0.00
ATOM	1293	O	PHE	A	87	0.375	14.545	-1.965	1.00	0.00
ATOM	1294	CB	PHE	A	87	2.965	12.473	-2.426	1.00	0.00
ATOM	1295	CG	PHE	A	87	3.806	11.276	-2.093	1.00	0.00
ATOM	1296	CD1	PHE	A	87	3.342	9.995	-2.345	1.00	0.00



ATOM 1297	CD2	PHE A	87	5.060	11.431	-1.527	1.00	0.00
ATOM 1298	CE1	PHE A	87	4.114	8.891	-2.038	1.00	0.00
ATOM 1299	CE2	PHE A	87	5.837	10.331	-1.218	1.00	0.00
ATOM 1300	CZ	PHE A	87	5.363	9.060	-1.473	1.00	0.00
ATOM 1301	H	PHE A	87	0.210	12.263	-3.113	1.00	0.00
ATOM 1302	HA	PHE A	87	1.826	12.069	-0.660	1.00	0.00
ATOM 1303	1HB	PHE A	87	2.716	12.422	-3.476	1.00	0.00
ATOM 1304	2HB	PHE A	87	3.556	13.359	-2.244	1.00	0.00
ATOM 1305	HD1	PHE A	87	2.366	9.863	-2.786	1.00	0.00
ATOM 1306	HD2	PHE A	87	5.432	12.425	-1.326	1.00	0.00
ATOM 1307	HE1	PHE A	87	3.740	7.898	-2.240	1.00	0.00
ATOM 1308	HE2	PHE A	87	6.814	10.466	-0.776	1.00	0.00
ATOM 1309	HZ	PHE A	87	5.969	8.199	-1.232	1.00	0.00
ATOM 1310	N	SER A	88	2.051	14.664	-0.469	1.00	0.00
ATOM 1311	CA	SER A	88	1.802	16.063	-0.140	1.00	0.00
ATOM 1312	C	SER A	88	2.462	16.988	-1.161	1.00	0.00
ATOM 1313	O	SER A	88	3.506	16.659	-1.723	1.00	0.00
ATOM 1314	CB	SER A	88	2.322	16.378	1.263	1.00	0.00
ATOM 1315	OG	SER A	88	1.444	17.256	1.947	1.00	0.00
ATOM 1316	H	SER A	88	2.781	14.189	-0.020	1.00	0.00
ATOM 1317	HA	SER A	88	0.735	16.222	-0.163	1.00	0.00
ATOM 1318	1HB	SER A	88	2.405	15.462	1.829	1.00	0.00
ATOM 1319	2HB	SER A	88	3.293	16.845	1.190	1.00	0.00
ATOM 1320	HG	SER A	88	1.699	18.165	1.772	1.00	0.00
ATOM 1321	N	PRO A	89	1.859	18.163	-1.414	1.00	0.00
ATOM 1322	CA	PRO A	89	2.396	19.136	-2.372	1.00	0.00
ATOM 1323	C	PRO A	89	3.804	19.592	-2.007	1.00	0.00

ATOM	1324	O	PRO	A	89	4.585	19.983	-2.874	1.00	0.00
ATOM	1325	CB	PRO	A	89	1.419	20.311	-2.290	1.00	0.00
ATOM	1326	CG	PRO	A	89	0.172	19.745	-1.701	1.00	0.00
ATOM	1327	CD	PRO	A	89	0.612	18.637	-0.788	1.00	0.00
ATOM	1328	HA	PRO	A	89	2.399	18.741	-3.374	1.00	0.00
ATOM	1329	1HB	PRO	A	89	1.838	21.080	-1.662	1.00	0.00
ATOM	1330	2HB	PRO	A	89	1.242	20.704	-3.280	1.00	0.00
ATOM	1331	1HG	PRO	A	89	-0.348	20.508	-1.139	1.00	0.00
ATOM	1332	2HG	PRO	A	89	-0.461	19.356	-2.484	1.00	0.00
ATOM	1333	1HD	PRO	A	89	0.798	19.016	0.206	1.00	0.00
ATOM	1334	2HD	PRO	A	89	-0.129	17.853	-0.763	1.00	0.00
ATOM	1335	N	LEU	A	90	4.122	19.541	-0.716	1.00	0.00
ATOM	1336	CA	LEU	A	90	5.437	19.951	-0.236	1.00	0.00
ATOM	1337	C	LEU	A	90	6.543	19.137	-0.902	1.00	0.00
ATOM	1338	O	LEU	A	90	7.644	19.638	-1.131	1.00	0.00
ATOM	1339	CB	LEU	A	90	5.519	19.797	1.283	1.00	0.00
ATOM	1340	CG	LEU	A	90	4.708	20.818	2.083	1.00	0.00
ATOM	1341	CD1	LEU	A	90	3.248	20.402	2.154	1.00	0.00
ATOM	1342	CD2	LEU	A	90	5.288	20.981	3.480	1.00	0.00
ATOM	1343	H	LEU	A	90	3.457	19.222	-0.073	1.00	0.00
ATOM	1344	HA	LEU	A	90	5.572	20.992	-0.490	1.00	0.00
ATOM	1345	1HB	LEU	A	90	5.169	18.808	1.542	1.00	0.00
ATOM	1346	2HB	LEU	A	90	6.554	19.884	1.578	1.00	0.00
ATOM	1347	HG	LEU	A	90	4.758	21.777	1.586	1.00	0.00
ATOM	1348	1HD1	LEU	A	90	2.770	20.598	1.206	1.00	0.00
ATOM	1349	2HD1	LEU	A	90	2.751	20.965	2.931	1.00	0.00
ATOM	1350	3HD1	LEU	A	90	3.185	19.348	2.378	1.00	0.00

ATOM	1351	1HD2	LEU	A	90	4.488	21.169	4.182	1.00	0.00
ATOM	1352	2HD2	LEU	A	90	5.977	21.811	3.490	1.00	0.00
ATOM	1353	3HD2	LEU	A	90	5.808	20.077	3.761	1.00	0.00
ATOM	1354	N	ALA	A	91	6.241	17.880	-1.209	1.00	0.00
ATOM	1355	CA	ALA	A	91	7.209	16.997	-1.848	1.00	0.00
ATOM	1356	C	ALA	A	91	7.445	17.398	-3.300	1.00	0.00
ATOM	1357	O	ALA	A	91	6.872	18.375	-3.786	1.00	0.00
ATOM	1358	CB	ALA	A	91	6.739	15.553	-1.766	1.00	0.00
ATOM	1359	H	ALA	A	91	5.346	17.538	-1.001	1.00	0.00
ATOM	1360	HA	ALA	A	91	8.141	17.079	-1.307	1.00	0.00
ATOM	1361	1HB	ALA	A	91	6.975	15.044	-2.689	1.00	0.00
ATOM	1362	2HB	ALA	A	91	5.672	15.529	-1.605	1.00	0.00
ATOM	1363	3HB	ALA	A	91	7.239	15.058	-0.946	1.00	0.00
ATOM	1364	N	ARG	A	92	8.290	16.638	-3.988	1.00	0.00
ATOM	1365	CA	ARG	A	92	8.604	16.910	-5.387	1.00	0.00
ATOM	1366	C	ARG	A	92	9.629	15.914	-5.919	1.00	0.00
ATOM	1367	O	ARG	A	92	9.577	15.519	-7.084	1.00	0.00
ATOM	1368	CB	ARG	A	92	9.130	18.339	-5.550	1.00	0.00
ATOM	1369	CG	ARG	A	92	8.535	19.071	-6.741	1.00	0.00
ATOM	1370	CD	ARG	A	92	9.549	19.997	-7.396	1.00	0.00
ATOM	1371	NE	ARG	A	92	10.040	19.463	-8.665	1.00	0.00
ATOM	1372	CZ	ARG	A	92	11.177	18.780	-8.800	1.00	0.00
ATOM	1373	NH1	ARG	A	92	11.949	18.537	-7.748	1.00	0.00
ATOM	1374	NH2	ARG	A	92	11.542	18.336	-9.995	1.00	0.00
ATOM	1375	H	ARG	A	92	8.712	15.873	-3.544	1.00	0.00
ATOM	1376	HA	ARG	A	92	7.691	16.806	-5.956	1.00	0.00
ATOM	1377	1HB	ARG	A	92	8.898	18.900	-4.657	1.00	0.00

ATOM 1378	2HB	ARG	A	92	10.202	18.304	-5.674	1.00	0.00
ATOM 1379	1HG	ARG	A	92	8.206	18.346	-7.470	1.00	0.00
ATOM 1380	2HG	ARG	A	92	7.691	19.657	-6.407	1.00	0.00
ATOM 1381	1HD	ARG	A	92	9.078	20.952	-7.578	1.00	0.00
ATOM 1382	2HD	ARG	A	92	10.383	20.133	-6.723	1.00	0.00
ATOM 1383	HE	ARG	A	92	9.493	19.623	-9.462	1.00	0.00
ATOM 1384	1HH1	ARG	A	92	11.684	18.865	-6.843	1.00	0.00
ATOM 1385	2HH1	ARG	A	92	12.800	18.024	-7.862	1.00	0.00
ATOM 1386	1HH2	ARG	A	92	10.964	18.513	-10.792	1.00	0.00
ATOM 1387	2HH2	ARG	A	92	12.393	17.823	-10.099	1.00	0.00
ATOM 1388	N	ARG	A	93	10.560	15.510	-5.060	1.00	0.00
ATOM 1389	CA	ARG	A	93	11.597	14.560	-5.445	1.00	0.00
ATOM 1390	C	ARG	A	93	11.193	13.132	-5.087	1.00	0.00
ATOM 1391	O	ARG	A	93	12.026	12.328	-4.667	1.00	0.00
ATOM 1392	CB	ARG	A	93	12.919	14.914	-4.764	1.00	0.00
ATOM 1393	CG	ARG	A	93	13.576	16.166	-5.324	1.00	0.00
ATOM 1394	CD	ARG	A	93	14.075	15.945	-6.743	1.00	0.00
ATOM 1395	NE	ARG	A	93	15.196	16.821	-7.071	1.00	0.00
ATOM 1396	CZ	ARG	A	93	15.575	17.109	-8.315	1.00	0.00
ATOM 1397	NH1	ARG	A	93	14.924	16.592	-9.350	1.00	0.00
ATOM 1398	NH2	ARG	A	93	16.606	17.915	-8.524	1.00	0.00
ATOM 1399	H	ARG	A	93	10.550	15.861	-4.145	1.00	0.00
ATOM 1400	HA	ARG	A	93	11.725	14.626	-6.515	1.00	0.00
ATOM 1401	1HB	ARG	A	93	12.738	15.070	-3.710	1.00	0.00
ATOM 1402	2HB	ARG	A	93	13.606	14.089	-4.883	1.00	0.00
ATOM 1403	1HG	ARG	A	93	12.854	16.968	-5.328	1.00	0.00
ATOM 1404	2HG	ARG	A	93	14.413	16.434	-4.695	1.00	0.00

ATOM 1405	1HD	ARG	A	93	14.392	14.917	-6.843	1.00	0.00
ATOM 1406	2HD	ARG	A	93	13.265	16.139	-7.429	1.00	0.00
ATOM 1407	HE	ARG	A	93	15.694	17.218	-6.326	1.00	0.00
ATOM 1408	1HH1	ARG	A	93	14.145	15.984	-9.200	1.00	0.00
ATOM 1409	2HH1	ARG	A	93	15.214	16.812	-10.281	1.00	0.00
ATOM 1410	1HH2	ARG	A	93	17.099	18.308	-7.748	1.00	0.00
ATOM 1411	2HH2	ARG	A	93	16.891	18.131	-9.459	1.00	0.00
ATOM 1412	N	VAL	A	94	9.912	12.823	-5.255	1.00	0.00
ATOM 1413	CA	VAL	A	94	9.399	11.492	-4.952	1.00	0.00
ATOM 1414	C	VAL	A	94	9.255	10.660	-6.222	1.00	0.00
ATOM 1415	O	VAL	A	94	8.375	10.913	-7.045	1.00	0.00
ATOM 1416	CB	VAL	A	94	8.035	11.564	-4.240	1.00	0.00
ATOM 1417	CG1	VAL	A	94	7.607	10.185	-3.764	1.00	0.00
ATOM 1418	CG2	VAL	A	94	8.090	12.544	-3.079	1.00	0.00
ATOM 1419	H	VAL	A	94	9.296	13.505	-5.595	1.00	0.00
ATOM 1420	HA	VAL	A	94	10.103	11.006	-4.291	1.00	0.00
ATOM 1421	HB	VAL	A	94	7.301	11.920	-4.949	1.00	0.00
ATOM 1422	1HG1	VAL	A	94	6.541	10.072	-3.901	1.00	0.00
ATOM 1423	2HG1	VAL	A	94	7.848	10.074	-2.718	1.00	0.00
ATOM 1424	3HG1	VAL	A	94	8.124	9.430	-4.336	1.00	0.00
ATOM 1425	1HG2	VAL	A	94	8.516	13.478	-3.415	1.00	0.00
ATOM 1426	2HG2	VAL	A	94	8.702	12.133	-2.289	1.00	0.00
ATOM 1427	3HG2	VAL	A	94	7.092	12.717	-2.707	1.00	0.00
ATOM 1428	N	ASP	A	95	10.124	9.668	-6.375	1.00	0.00
ATOM 1429	CA	ASP	A	95	10.094	8.800	-7.547	1.00	0.00
ATOM 1430	C	ASP	A	95	9.346	7.505	-7.250	1.00	0.00
ATOM 1431	O	ASP	A	95	9.166	7.131	-6.090	1.00	0.00

ATOM	1432	CB	ASP	A	95	11.517	8.485	-8.012	1.00	0.00
ATOM	1433	CG	ASP	A	95	11.636	8.439	-9.522	1.00	0.00
ATOM	1434	OD1	ASP	A	95	11.896	9.499	-10.129	1.00	0.00
ATOM	1435	OD2	ASP	A	95	11.469	7.344	-10.098	1.00	0.00
ATOM	1436	H	ASP	A	95	10.804	9.515	-5.686	1.00	0.00
ATOM	1437	HA	ASP	A	95	9.577	9.327	-8.335	1.00	0.00
ATOM	1438	1HB	ASP	A	95	12.187	9.246	-7.639	1.00	0.00
ATOM	1439	2HB	ASP	A	95	11.814	7.525	-7.616	1.00	0.00
ATOM	1440	N	ARG	A	96	8.912	6.824	-8.306	1.00	0.00
ATOM	1441	CA	ARG	A	96	8.183	5.569	-8.162	1.00	0.00
ATOM	1442	C	ARG	A	96	9.008	4.543	-7.391	1.00	0.00
ATOM	1443	O	ARG	A	96	8.473	3.770	-6.597	1.00	0.00
ATOM	1444	CB	ARG	A	96	7.811	5.008	-9.537	1.00	0.00
ATOM	1445	CG	ARG	A	96	9.002	4.840	-10.469	1.00	0.00
ATOM	1446	CD	ARG	A	96	8.567	4.727	-11.922	1.00	0.00
ATOM	1447	NE	ARG	A	96	9.114	5.806	-12.744	1.00	0.00
ATOM	1448	CZ	ARG	A	96	8.521	6.986	-12.915	1.00	0.00
ATOM	1449	NH1	ARG	A	96	7.360	7.248	-12.329	1.00	0.00
ATOM	1450	NH2	ARG	A	96	9.094	7.909	-13.677	1.00	0.00
ATOM	1451	H	ARG	A	96	9.087	7.174	-9.204	1.00	0.00
ATOM	1452	HA	ARG	A	96	7.278	5.772	-7.610	1.00	0.00
ATOM	1453	1HB	ARG	A	96	7.347	4.043	-9.406	1.00	0.00
ATOM	1454	2HB	ARG	A	96	7.106	5.678	-10.007	1.00	0.00
ATOM	1455	1HG	ARG	A	96	9.652	5.695	-10.365	1.00	0.00
ATOM	1456	2HG	ARG	A	96	9.537	3.944	-10.192	1.00	0.00
ATOM	1457	1HD	ARG	A	96	8.912	3.781	-12.314	1.00	0.00
ATOM	1458	2HD	ARG	A	96	7.489	4.760	-11.968	1.00	0.00

ATOM 1459	HE	ARG	A	96	9.971	5.643	-13.190	1.00	0.00
ATOM 1460	1HH1	ARG	A	96	6.921	6.560	-11.754	1.00	0.00
ATOM 1461	2HH1	ARG	A	96	6.922	8.137	-12.465	1.00	0.00
ATOM 1462	1HH2	ARG	A	96	9.969	7.717	-14.121	1.00	0.00
ATOM 1463	2HH2	ARG	A	96	8.650	8.794	-13.807	1.00	0.00
ATOM 1464	N	VAL	A	97	10.316	4.545	-7.629	1.00	0.00
ATOM 1465	CA	VAL	A	97	11.217	3.615	-6.958	1.00	0.00
ATOM 1466	C	VAL	A	97	11.167	3.801	-5.445	1.00	0.00
ATOM 1467	O	VAL	A	97	11.361	2.851	-4.686	1.00	0.00
ATOM 1468	CB	VAL	A	97	12.669	3.795	-7.439	1.00	0.00
ATOM 1469	CG1	VAL	A	97	13.566	2.714	-6.855	1.00	0.00
ATOM 1470	CG2	VAL	A	97	12.736	3.790	-8.959	1.00	0.00
ATOM 1471	H	VAL	A	97	10.683	5.186	-8.273	1.00	0.00
ATOM 1472	HA	VAL	A	97	10.901	2.611	-7.199	1.00	0.00
ATOM 1473	HB	VAL	A	97	13.026	4.752	-7.088	1.00	0.00
ATOM 1474	1HG1	VAL	A	97	13.743	1.952	-7.599	1.00	0.00
ATOM 1475	2HG1	VAL	A	97	13.084	2.272	-5.995	1.00	0.00
ATOM 1476	3HG1	VAL	A	97	14.508	3.150	-6.555	1.00	0.00
ATOM 1477	1HG2	VAL	A	97	11.742	3.902	-9.365	1.00	0.00
ATOM 1478	2HG2	VAL	A	97	13.160	2.856	-9.299	1.00	0.00
ATOM 1479	3HG2	VAL	A	97	13.356	4.608	-9.295	1.00	0.00
ATOM 1480	N	ALA	A	98	10.908	5.030	-5.012	1.00	0.00
ATOM 1481	CA	ALA	A	98	10.834	5.341	-3.590	1.00	0.00
ATOM 1482	C	ALA	A	98	9.724	4.548	-2.909	1.00	0.00
ATOM 1483	O	ALA	A	98	9.983	3.731	-2.026	1.00	0.00
ATOM 1484	CB	ALA	A	98	10.617	6.833	-3.388	1.00	0.00
ATOM 1485	H	ALA	A	98	10.762	5.746	-5.666	1.00	0.00

ATOM	1486	HA	ALA	A	98	11.779	5.075	-3.141	1.00	0.00
ATOM	1487	1HB	ALA	A	98	10.956	7.367	-4.263	1.00	0.00
ATOM	1488	2HB	ALA	A	98	11.177	7.163	-2.525	1.00	0.00
ATOM	1489	3HB	ALA	A	98	9.567	7.026	-3.232	1.00	0.00
ATOM	1490	N	ILE	A	99	8.486	4.792	-3.327	1.00	0.00
ATOM	1491	CA	ILE	A	99	7.337	4.098	-2.756	1.00	0.00
ATOM	1492	C	ILE	A	99	7.354	2.613	-3.114	1.00	0.00
ATOM	1493	O	ILE	A	99	6.666	1.807	-2.486	1.00	0.00
ATOM	1494	CB	ILE	A	99	6.006	4.716	-3.232	1.00	0.00
ATOM	1495	CG1	ILE	A	99	6.024	6.234	-3.045	1.00	0.00
ATOM	1496	CG2	ILE	A	99	4.837	4.098	-2.477	1.00	0.00
ATOM	1497	CD1	ILE	A	99	5.188	6.978	-4.063	1.00	0.00
ATOM	1498	H	ILE	A	99	8.341	5.453	-4.036	1.00	0.00
ATOM	1499	HA	ILE	A	99	7.390	4.198	-1.682	1.00	0.00
ATOM	1500	HB	ILE	A	99	5.880	4.492	-4.280	1.00	0.00
ATOM	1501	1HG1	ILE	A	99	5.639	6.473	-2.065	1.00	0.00
ATOM	1502	2HG1	ILE	A	99	7.039	6.591	-3.123	1.00	0.00
ATOM	1503	1HG2	ILE	A	99	4.336	3.383	-3.111	1.00	0.00
ATOM	1504	2HG2	ILE	A	99	4.143	4.874	-2.190	1.00	0.00
ATOM	1505	3HG2	ILE	A	99	5.203	3.600	-1.591	1.00	0.00
ATOM	1506	1HD1	ILE	A	99	5.397	8.036	-3.998	1.00	0.00
ATOM	1507	2HD1	ILE	A	99	4.141	6.806	-3.864	1.00	0.00
ATOM	1508	3HD1	ILE	A	99	5.429	6.624	-5.055	1.00	0.00
ATOM	1509	N	TYR	A	100	8.145	2.255	-4.122	1.00	0.00
ATOM	1510	CA	TYR	A	100	8.250	0.868	-4.558	1.00	0.00
ATOM	1511	C	TYR	A	100	9.206	0.086	-3.662	1.00	0.00
ATOM	1512	O	TYR	A	100	8.933	-1.057	-3.294	1.00	0.00



ATOM	1513	CB	TYR A 100	8.731	0.802	-6.008	1.00	0.00
ATOM	1514	CG	TYR A 100	8.653	-0.582	-6.612	1.00	0.00
ATOM	1515	CD1	TYR A 100	7.440	-1.257	-6.696	1.00	0.00
ATOM	1516	CD2	TYR A 100	9.790	-1.214	-7.099	1.00	0.00
ATOM	1517	CE1	TYR A 100	7.365	-2.521	-7.247	1.00	0.00
ATOM	1518	CE2	TYR A 100	9.722	-2.479	-7.651	1.00	0.00
ATOM	1519	CZ	TYR A 100	8.508	-3.129	-7.724	1.00	0.00
ATOM	1520	OH	TYR A 100	8.436	-4.387	-8.275	1.00	0.00
ATOM	1521	H	TYR A 100	8.671	2.941	-4.585	1.00	0.00
ATOM	1522	HA	TYR A 100	7.268	0.423	-4.492	1.00	0.00
ATOM	1523	1HB	TYR A 100	8.124	1.461	-6.611	1.00	0.00
ATOM	1524	2HB	TYR A 100	9.761	1.127	-6.053	1.00	0.00
ATOM	1525	HD1	TYR A 100	6.547	-0.780	-6.323	1.00	0.00
ATOM	1526	HD2	TYR A 100	10.740	-0.704	-7.039	1.00	0.00
ATOM	1527	HE1	TYR A 100	6.414	-3.029	-7.304	1.00	0.00
ATOM	1528	HE2	TYR A 100	10.618	-2.954	-8.024	1.00	0.00
ATOM	1529	HH	TYR A 100	9.010	-4.435	-9.042	1.00	0.00
ATOM	1530	N	GLU A 101	10.328	0.709	-3.318	1.00	0.00
ATOM	1531	CA	GLU A 101	11.326	0.072	-2.468	1.00	0.00
ATOM	1532	C	GLU A 101	10.924	0.145	-0.998	1.00	0.00
ATOM	1533	O	GLU A 101	11.269	-0.731	-0.206	1.00	0.00
ATOM	1534	CB	GLU A 101	12.691	0.733	-2.668	1.00	0.00
ATOM	1535	CG	GLU A 101	13.481	0.154	-3.832	1.00	0.00
ATOM	1536	CD	GLU A 101	14.896	-0.228	-3.444	1.00	0.00
ATOM	1537	OE1	GLU A 101	15.371	-1.290	-3.900	1.00	0.00
ATOM	1538	OE2	GLU A 101	15.529	0.532	-2.683	1.00	0.00
ATOM	1539	H	GLU A 101	10.490	1.620	-3.644	1.00	0.00

ATOM 1540	HA	GLU A 101	11.394	-0.967	-2.758	1.00	0.00
ATOM 1541	1HB	GLU A 101	12.543	1.787	-2.851	1.00	0.00
ATOM 1542	2HB	GLU A 101	13.274	0.611	-1.768	1.00	0.00
ATOM 1543	1HG	GLU A 101	12.973	-0.727	-4.193	1.00	0.00
ATOM 1544	2HG	GLU A 101	13.527	0.890	-4.621	1.00	0.00
ATOM 1545	N	GLU A 102	10.192	1.194	-0.641	1.00	0.00
ATOM 1546	CA	GLU A 102	9.744	1.380	0.734	1.00	0.00
ATOM 1547	C	GLU A 102	8.599	0.429	1.068	1.00	0.00
ATOM 1548	O	GLU A 102	8.462	-0.018	2.207	1.00	0.00
ATOM 1549	CB	GLU A 102	9.303	2.827	0.958	1.00	0.00
ATOM 1550	CG	GLU A 102	10.459	3.781	1.212	1.00	0.00
ATOM 1551	CD	GLU A 102	11.284	3.386	2.420	1.00	0.00
ATOM 1552	OE1	GLU A 102	10.704	2.846	3.385	1.00	0.00
ATOM 1553	OE2	GLU A 102	12.512	3.617	2.402	1.00	0.00
ATOM 1554	H	GLU A 102	9.947	1.861	-1.316	1.00	0.00
ATOM 1555	HA	GLU A 102	10.577	1.162	1.386	1.00	0.00
ATOM 1556	1HB	GLU A 102	8.769	3.168	0.084	1.00	0.00
ATOM 1557	2HB	GLU A 102	8.641	2.862	1.810	1.00	0.00
ATOM 1558	1HG	GLU A 102	11.101	3.789	0.344	1.00	0.00
ATOM 1559	2HG	GLU A 102	10.061	4.772	1.373	1.00	0.00
ATOM 1560	N	PHE A 103	7.778	0.124	0.068	1.00	0.00
ATOM 1561	CA	PHE A 103	6.645	-0.773	0.256	1.00	0.00
ATOM 1562	C	PHE A 103	7.104	-2.226	0.316	1.00	0.00
ATOM 1563	O	PHE A 103	6.719	-2.973	1.217	1.00	0.00
ATOM 1564	CB	PHE A 103	5.632	-0.594	-0.877	1.00	0.00
ATOM 1565	CG	PHE A 103	4.391	-1.424	-0.710	1.00	0.00
ATOM 1566	CD1	PHE A 103	4.216	-2.587	-1.443	1.00	0.00

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ATOM 1567	CD2	PHE A 103	3.400	-1.042	0.181	1.00	0.00
ATOM 1568	CE1	PHE A 103	3.075	-3.353	-1.292	1.00	0.00
ATOM 1569	CE2	PHE A 103	2.258	-1.803	0.336	1.00	0.00
ATOM 1570	CZ	PHE A 103	2.095	-2.961	-0.402	1.00	0.00
ATOM 1571	H	PHE A 103	7.939	0.512	-0.818	1.00	0.00
ATOM 1572	HA	PHE A 103	6.172	-0.519	1.193	1.00	0.00
ATOM 1573	1HB	PHE A 103	5.334	0.442	-0.922	1.00	0.00
ATOM 1574	2HB	PHE A 103	6.096	-0.872	-1.811	1.00	0.00
ATOM 1575	HD1	PHE A 103	4.982	-2.895	-2.139	1.00	0.00
ATOM 1576	HD2	PHE A 103	3.527	-0.137	0.757	1.00	0.00
ATOM 1577	HE1	PHE A 103	2.951	-4.256	-1.870	1.00	0.00
ATOM 1578	HE2	PHE A 103	1.493	-1.494	1.032	1.00	0.00
ATOM 1579	HZ	PHE A 103	1.203	-3.557	-0.282	1.00	0.00
ATOM 1580	N	LEU A 104	7.928	-2.621	-0.649	1.00	0.00
ATOM 1581	CA	LEU A 104	8.439	-3.986	-0.707	1.00	0.00
ATOM 1582	C	LEU A 104	9.270	-4.310	0.531	1.00	0.00
ATOM 1583	O	LEU A 104	9.193	-5.415	1.070	1.00	0.00
ATOM 1584	CB	LEU A 104	9.282	-4.183	-1.969	1.00	0.00
ATOM 1585	CG	LEU A 104	8.527	-3.999	-3.286	1.00	0.00
ATOM 1586	CD1	LEU A 104	9.500	-3.908	-4.451	1.00	0.00
ATOM 1587	CD2	LEU A 104	7.542	-5.137	-3.498	1.00	0.00
ATOM 1588	H	LEU A 104	8.197	-1.980	-1.338	1.00	0.00
ATOM 1589	HA	LEU A 104	7.593	-4.655	-0.742	1.00	0.00
ATOM 1590	1HB	LEU A 104	10.100	-3.477	-1.944	1.00	0.00
ATOM 1591	2HB	LEU A 104	9.690	-5.182	-1.951	1.00	0.00
ATOM 1592	HG	LEU A 104	7.968	-3.075	-3.247	1.00	0.00
ATOM 1593	1HD1	LEU A 104	10.339	-3.289	-4.172	1.00	0.00

ATOM 1594	2HD1	LEU	A	104	9.001	-3.476	-5.306	1.00	0.00
ATOM 1595	3HD1	LEU	A	104	9.852	-4.898	-4.704	1.00	0.00
ATOM 1596	1HD2	LEU	A	104	6.809	-4.847	-4.238	1.00	0.00
ATOM 1597	2HD2	LEU	A	104	7.043	-5.360	-2.566	1.00	0.00
ATOM 1598	3HD2	LEU	A	104	8.072	-6.014	-3.841	1.00	0.00
ATOM 1599	N	ARG	A	105	10.064	-3.342	0.976	1.00	0.00
ATOM 1600	CA	ARG	A	105	10.908	-3.526	2.151	1.00	0.00
ATOM 1601	C	ARG	A	105	10.068	-3.838	3.384	1.00	0.00
ATOM 1602	O	ARG	A	105	10.466	-4.633	4.235	1.00	0.00
ATOM 1603	CB	ARG	A	105	11.755	-2.275	2.397	1.00	0.00
ATOM 1604	CG	ARG	A	105	13.107	-2.308	1.704	1.00	0.00
ATOM 1605	CD	ARG	A	105	14.095	-1.363	2.368	1.00	0.00
ATOM 1606	NE	ARG	A	105	14.222	-1.624	3.800	1.00	0.00
ATOM 1607	CZ	ARG	A	105	14.883	-2.661	4.309	1.00	0.00
ATOM 1608	NH1	ARG	A	105	15.473	-3.540	3.508	1.00	0.00
ATOM 1609	NH2	ARG	A	105	14.952	-2.822	5.623	1.00	0.00
ATOM 1610	H	ARG	A	105	10.082	-2.484	0.504	1.00	0.00
ATOM 1611	HA	ARG	A	105	11.566	-4.361	1.958	1.00	0.00
ATOM 1612	1HB	ARG	A	105	11.211	-1.413	2.040	1.00	0.00
ATOM 1613	2HB	ARG	A	105	11.920	-2.171	3.459	1.00	0.00
ATOM 1614	1HG	ARG	A	105	13.499	-3.313	1.749	1.00	0.00
ATOM 1615	2HG	ARG	A	105	12.979	-2.015	0.673	1.00	0.00
ATOM 1616	1HD	ARG	A	105	15.062	-1.488	1.902	1.00	0.00
ATOM 1617	2HD	ARG	A	105	13.755	-0.349	2.226	1.00	0.00
ATOM 1618	HE	ARG	A	105	13.793	-0.992	4.415	1.00	0.00
ATOM 1619	1HH1	ARG	A	105	15.422	-3.425	2.516	1.00	0.00
ATOM 1620	2HH1	ARG	A	105	15.967	-4.317	3.896	1.00	0.00

ATOM 1621	1HH2	ARG	A	105	14.509	-2.163	6.232	1.00	0.00
ATOM 1622	2HH2	ARG	A	105	15.449	-3.601	6.007	1.00	0.00
ATOM 1623	N	MET	A	106	8.901	-3.206	3.474	1.00	0.00
ATOM 1624	CA	MET	A	106	8.003	-3.415	4.605	1.00	0.00
ATOM 1625	C	MET	A	106	7.186	-4.691	4.424	1.00	0.00
ATOM 1626	O	MET	A	106	6.798	-5.334	5.399	1.00	0.00
ATOM 1627	CB	MET	A	106	7.068	-2.217	4.767	1.00	0.00
ATOM 1628	CG	MET	A	106	6.559	-2.032	6.188	1.00	0.00
ATOM 1629	SD	MET	A	106	7.413	-0.708	7.065	1.00	0.00
ATOM 1630	CE	MET	A	106	7.166	0.659	5.935	1.00	0.00
ATOM 1631	H	MET	A	106	8.639	-2.584	2.765	1.00	0.00
ATOM 1632	HA	MET	A	106	8.608	-3.512	5.495	1.00	0.00
ATOM 1633	1HB	MET	A	106	7.595	-1.321	4.477	1.00	0.00
ATOM 1634	2HB	MET	A	106	6.215	-2.349	4.118	1.00	0.00
ATOM 1635	1HG	MET	A	106	5.506	-1.798	6.152	1.00	0.00
ATOM 1636	2HG	MET	A	106	6.703	-2.954	6.731	1.00	0.00
ATOM 1637	1HE	MET	A	106	6.535	0.341	5.118	1.00	0.00
ATOM 1638	2HE	MET	A	106	8.120	0.983	5.548	1.00	0.00
ATOM 1639	3HE	MET	A	106	6.693	1.478	6.458	1.00	0.00
ATOM 1640	N	THR	A	107	6.926	-5.050	3.171	1.00	0.00
ATOM 1641	CA	THR	A	107	6.153	-6.249	2.866	1.00	0.00
ATOM 1642	C	THR	A	107	7.067	-7.440	2.589	1.00	0.00
ATOM 1643	O	THR	A	107	6.663	-8.404	1.939	1.00	0.00
ATOM 1644	CB	THR	A	107	5.244	-5.997	1.662	1.00	0.00
ATOM 1645	OG1	THR	A	107	6.001	-5.570	0.543	1.00	0.00
ATOM 1646	CG2	THR	A	107	4.180	-4.953	1.924	1.00	0.00
ATOM 1647	H	THR	A	107	7.261	-4.497	2.435	1.00	0.00

ATOM 1648	HA	THR A 107	5.540	-6.474	3.725	1.00	0.00
ATOM 1649	HB	THR A 107	4.745	-6.920	1.401	1.00	0.00
ATOM 1650	HG1	THR A 107	5.412	-5.394	-0.194	1.00	0.00
ATOM 1651	1HG2	THR A 107	4.474	-4.018	1.470	1.00	0.00
ATOM 1652	2HG2	THR A 107	4.067	-4.816	2.990	1.00	0.00
ATOM 1653	3HG2	THR A 107	3.242	-5.281	1.502	1.00	0.00
ATOM 1654	N	HIS A 108	8.298	-7.371	3.089	1.00	0.00
ATOM 1655	CA	HIS A 108	9.265	-8.447	2.895	1.00	0.00
ATOM 1656	C	HIS A 108	9.433	-8.778	1.415	1.00	0.00
ATOM 1657	O	HIS A 108	8.991	-9.829	0.949	1.00	0.00
ATOM 1658	CB	HIS A 108	8.829	-9.695	3.665	1.00	0.00
ATOM 1659	CG	HIS A 108	9.233	-9.681	5.107	1.00	0.00
ATOM 1660	ND1	HIS A 108	9.135	-8.562	5.906	1.00	0.00
ATOM 1661	CD2	HIS A 108	9.739	-10.660	5.895	1.00	0.00
ATOM 1662	CE1	HIS A 108	9.565	-8.850	7.121	1.00	0.00
ATOM 1663	NE2	HIS A 108	9.936	-10.117	7.141	1.00	0.00
ATOM 1664	H	HIS A 108	8.563	-6.579	3.600	1.00	0.00
ATOM 1665	HA	HIS A 108	10.215	-8.111	3.285	1.00	0.00
ATOM 1666	1HB	HIS A 108	7.753	-9.778	3.624	1.00	0.00
ATOM 1667	2HB	HIS A 108	9.269	-10.567	3.204	1.00	0.00
ATOM 1668	HD1	HIS A 108	8.802	-7.684	5.623	1.00	0.00
ATOM 1669	HD2	HIS A 108	9.950	-11.678	5.598	1.00	0.00
ATOM 1670	HE1	HIS A 108	9.603	-8.168	7.957	1.00	0.00
ATOM 1671	HE2	HIS A 108	10.378	-10.565	7.893	1.00	0.00
ATOM 1672	N	ASN A 109	10.077	-7.877	0.681	1.00	0.00
ATOM 1673	CA	ASN A 109	10.306	-8.074	-0.746	1.00	0.00
ATOM 1674	C	ASN A 109	8.988	-8.257	-1.492	1.00	0.00

ATOM 1675	O	ASN A 109	8.920	-8.982	-2.483	1.00	0.00
ATOM 1676	CB	ASN A 109	11.206	-9.289	-0.975	1.00	0.00
ATOM 1677	CG	ASN A 109	12.131	-9.109	-2.162	1.00	0.00
ATOM 1678	OD1	ASN A 109	13.126	-8.388	-2.087	1.00	0.00
ATOM 1679	ND2	ASN A 109	11.806	-9.766	-3.270	1.00	0.00
ATOM 1680	H	ASN A 109	10.407	-7.060	1.109	1.00	0.00
ATOM 1681	HA	ASN A 109	10.801	-7.193	-1.127	1.00	0.00
ATOM 1682	1HB	ASN A 109	11.810	-9.452	-0.095	1.00	0.00
ATOM 1683	2HB	ASN A 109	10.590	-10.159	-1.149	1.00	0.00
ATOM 1684	1HD2	ASN A 109	10.999	-10.322	-3.258	1.00	0.00
ATOM 1685	2HD2	ASN A 109	12.386	-9.668	-4.053	1.00	0.00
ATOM 1686	N	GLY A 110	7.941	-7.596	-1.007	1.00	0.00
ATOM 1687	CA	GLY A 110	6.641	-7.700	-1.641	1.00	0.00
ATOM 1688	C	GLY A 110	6.127	-9.126	-1.680	1.00	0.00
ATOM 1689	O	GLY A 110	6.038	-9.731	-2.748	1.00	0.00
ATOM 1690	H	GLY A 110	8.055	-7.032	-0.213	1.00	0.00
ATOM 1691	1HA	GLY A 110	5.936	-7.091	-1.095	1.00	0.00
ATOM 1692	2HA	GLY A 110	6.714	-7.328	-2.653	1.00	0.00
ATOM 1693	N	THR A 111	5.790	-9.664	-0.513	1.00	0.00
ATOM 1694	CA	THR A 111	5.284	-11.027	-0.420	1.00	0.00
ATOM 1695	C	THR A 111	4.067	-11.098	0.497	1.00	0.00
ATOM 1696	O	THR A 111	3.062	-11.726	0.162	1.00	0.00
ATOM 1697	CB	THR A 111	6.378	-11.965	0.094	1.00	0.00
ATOM 1698	OG1	THR A 111	6.878	-11.516	1.341	1.00	0.00
ATOM 1699	CG2	THR A 111	7.551	-12.093	-0.853	1.00	0.00
ATOM 1700	H	THR A 111	5.884	-9.131	0.304	1.00	0.00
ATOM 1701	HA	THR A 111	4.991	-11.341	-1.411	1.00	0.00

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ATOM 1702	HB	THR A 111	5.956	-12.951	0.233	1.00	0.00
ATOM 1703	HG1	THR A 111	6.528	-12.067	2.044	1.00	0.00
ATOM 1704	1HG2	THR A 111	8.132	-11.182	-0.832	1.00	0.00
ATOM 1705	2HG2	THR A 111	7.187	-12.265	-1.855	1.00	0.00
ATOM 1706	3HG2	THR A 111	8.171	-12.922	-0.548	1.00	0.00
ATOM 1707	N	GLN A 112	4.163	-10.451	1.654	1.00	0.00
ATOM 1708	CA	GLN A 112	3.069	-10.446	2.616	1.00	0.00
ATOM 1709	C	GLN A 112	2.916	-9.074	3.267	1.00	0.00
ATOM 1710	O	GLN A 112	3.715	-8.688	4.120	1.00	0.00
ATOM 1711	CB	GLN A 112	3.303	-11.508	3.692	1.00	0.00
ATOM 1712	CG	GLN A 112	2.121	-11.698	4.628	1.00	0.00
ATOM 1713	CD	GLN A 112	2.336	-12.824	5.620	1.00	0.00
ATOM 1714	OE1	GLN A 112	2.537	-13.976	5.235	1.00	0.00
ATOM 1715	NE2	GLN A 112	2.297	-12.496	6.906	1.00	0.00
ATOM 1716	H	GLN A 112	4.990	-9.969	1.865	1.00	0.00
ATOM 1717	HA	GLN A 112	2.160	-10.680	2.085	1.00	0.00
ATOM 1718	1HB	GLN A 112	3.508	-12.453	3.209	1.00	0.00
ATOM 1719	2HB	GLN A 112	4.160	-11.223	4.283	1.00	0.00
ATOM 1720	1HG	GLN A 112	1.961	-10.782	5.176	1.00	0.00
ATOM 1721	2HG	GLN A 112	1.243	-11.920	4.038	1.00	0.00
ATOM 1722	1HE2	GLN A 112	2.132	-11.559	7.139	1.00	0.00
ATOM 1723	2HE2	GLN A 112	2.433	-13.205	7.569	1.00	0.00
ATOM 1724	N	LEU A 113	1.881	-8.345	2.862	1.00	0.00
ATOM 1725	CA	LEU A 113	1.618	-7.019	3.408	1.00	0.00
ATOM 1726	C	LEU A 113	0.948	-7.127	4.774	1.00	0.00
ATOM 1727	O	LEU A 113	-0.265	-7.311	4.869	1.00	0.00
ATOM 1728	CB	LEU A 113	0.736	-6.214	2.446	1.00	0.00



ATOM 1729	CG	LEU A 113	0.298	-4.828	2.940	1.00	0.00
ATOM 1730	CD1	LEU A 113	-0.956	-4.934	3.794	1.00	0.00
ATOM 1731	CD2	LEU A 113	1.416	-4.144	3.715	1.00	0.00
ATOM 1732	H	LEU A 113	1.276	-8.711	2.181	1.00	0.00
ATOM 1733	HA	LEU A 113	2.566	-6.514	3.523	1.00	0.00
ATOM 1734	1HB	LEU A 113	1.278	-6.085	1.521	1.00	0.00
ATOM 1735	2HB	LEU A 113	-0.153	-6.793	2.241	1.00	0.00
ATOM 1736	HG	LEU A 113	0.060	-4.212	2.084	1.00	0.00
ATOM 1737	1HD1	LEU A 113	-1.449	-5.875	3.596	1.00	0.00
ATOM 1738	2HD1	LEU A 113	-1.625	-4.120	3.554	1.00	0.00
ATOM 1739	3HD1	LEU A 113	-0.685	-4.883	4.839	1.00	0.00
ATOM 1740	1HD2	LEU A 113	1.040	-3.232	4.157	1.00	0.00
ATOM 1741	2HD2	LEU A 113	2.228	-3.907	3.043	1.00	0.00
ATOM 1742	3HD2	LEU A 113	1.771	-4.800	4.494	1.00	0.00
ATOM 1743	N	LEU A 114	1.752	-7.018	5.829	1.00	0.00
ATOM 1744	CA	LEU A 114	1.245	-7.108	7.195	1.00	0.00
ATOM 1745	C	LEU A 114	0.616	-8.475	7.454	1.00	0.00
ATOM 1746	O	LEU A 114	1.240	-9.353	8.050	1.00	0.00
ATOM 1747	CB	LEU A 114	0.224	-5.999	7.458	1.00	0.00
ATOM 1748	CG	LEU A 114	0.816	-4.594	7.589	1.00	0.00
ATOM 1749	CD1	LEU A 114	-0.288	-3.561	7.763	1.00	0.00
ATOM 1750	CD2	LEU A 114	1.796	-4.537	8.751	1.00	0.00
ATOM 1751	H	LEU A 114	2.711	-6.878	5.685	1.00	0.00
ATOM 1752	HA	LEU A 114	2.081	-6.980	7.865	1.00	0.00
ATOM 1753	1HB	LEU A 114	-0.489	-5.994	6.648	1.00	0.00
ATOM 1754	2HB	LEU A 114	-0.299	-6.231	8.375	1.00	0.00
ATOM 1755	HG	LEU A 114	1.355	-4.355	6.683	1.00	0.00

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ATOM 1756	1HD1	LEU	A	114	-1.223	-4.061	7.970	1.00	0.00
ATOM 1757	2HD1	LEU	A	114	-0.383	-2.980	6.859	1.00	0.00
ATOM 1758	3HD1	LEU	A	114	-0.042	-2.906	8.586	1.00	0.00
ATOM 1759	1HD2	LEU	A	114	2.789	-4.776	8.397	1.00	0.00
ATOM 1760	2HD2	LEU	A	114	1.501	-5.250	9.505	1.00	0.00
ATOM 1761	3HD2	LEU	A	114	1.794	-3.543	9.174	1.00	0.00
ATOM 1762	N	ASN	A	115	-0.623	-8.649	7.001	1.00	0.00
ATOM 1763	CA	ASN	A	115	-1.333	-9.909	7.184	1.00	0.00
ATOM 1764	C	ASN	A	115	-2.063	-10.310	5.905	1.00	0.00
ATOM 1765	O	ASN	A	115	-3.158	-10.870	5.953	1.00	0.00
ATOM 1766	CB	ASN	A	115	-2.329	-9.794	8.341	1.00	0.00
ATOM 1767	CG	ASN	A	115	-2.343	-11.033	9.215	1.00	0.00
ATOM 1768	OD1	ASN	A	115	-2.469	-12.154	8.722	1.00	0.00
ATOM 1769	ND2	ASN	A	115	-2.214	-10.836	10.522	1.00	0.00
ATOM 1770	H	ASN	A	115	-1.068	-7.913	6.533	1.00	0.00
ATOM 1771	HA	ASN	A	115	-0.604	-10.670	7.422	1.00	0.00
ATOM 1772	1HB	ASN	A	115	-2.062	-8.948	8.954	1.00	0.00
ATOM 1773	2HB	ASN	A	115	-3.321	-9.646	7.941	1.00	0.00
ATOM 1774	1HD2	ASN	A	115	-2.118	-9.916	10.844	1.00	0.00
ATOM 1775	2HD2	ASN	A	115	-2.220	-11.619	11.111	1.00	0.00
ATOM 1776	N	PHE	A	116	-1.448	-10.019	4.764	1.00	0.00
ATOM 1777	CA	PHE	A	116	-2.039	-10.346	3.472	1.00	0.00
ATOM 1778	C	PHE	A	116	-0.966	-10.762	2.470	1.00	0.00
ATOM 1779	O	PHE	A	116	-0.196	-9.929	1.990	1.00	0.00
ATOM 1780	CB	PHE	A	116	-2.825	-9.152	2.928	1.00	0.00
ATOM 1781	CG	PHE	A	116	-4.184	-8.994	3.547	1.00	0.00
ATOM 1782	CD1	PHE	A	116	-4.343	-8.297	4.733	1.00	0.00

ATOM 1783	CD2	PHE A 116	-5.303	-9.542	2.940	1.00	0.00
ATOM 1784	CE1	PHE A 116	-5.593	-8.149	5.304	1.00	0.00
ATOM 1785	CE2	PHE A 116	-6.555	-9.398	3.506	1.00	0.00
ATOM 1786	CZ	PHE A 116	-6.701	-8.700	4.689	1.00	0.00
ATOM 1787	H	PHE A 116	-0.577	-9.571	4.791	1.00	0.00
ATOM 1788	HA	PHE A 116	-2.716	-11.175	3.618	1.00	0.00
ATOM 1789	1HB	PHE A 116	-2.267	-8.247	3.119	1.00	0.00
ATOM 1790	2HB	PHE A 116	-2.954	-9.271	1.862	1.00	0.00
ATOM 1791	HD1	PHE A 116	-3.477	-7.864	5.213	1.00	0.00
ATOM 1792	HD2	PHE A 116	-5.191	-10.088	2.015	1.00	0.00
ATOM 1793	HE1	PHE A 116	-5.704	-7.602	6.229	1.00	0.00
ATOM 1794	HE2	PHE A 116	-7.420	-9.830	3.025	1.00	0.00
ATOM 1795	HZ	PHE A 116	-7.678	-8.586	5.134	1.00	0.00
ATOM 1796	N	THR A 117	-0.922	-12.052	2.157	1.00	0.00
ATOM 1797	CA	THR A 117	0.055	-12.577	1.210	1.00	0.00
ATOM 1798	C	THR A 117	-0.288	-12.155	-0.214	1.00	0.00
ATOM 1799	O	THR A 117	-1.310	-12.567	-0.766	1.00	0.00
ATOM 1800	CB	THR A 117	0.116	-14.102	1.301	1.00	0.00
ATOM 1801	OG1	THR A 117	-1.057	-14.684	0.763	1.00	0.00
ATOM 1802	CG2	THR A 117	0.273	-14.611	2.718	1.00	0.00
ATOM 1803	H	THR A 117	-1.564	-12.667	2.571	1.00	0.00
ATOM 1804	HA	THR A 117	1.020	-12.170	1.470	1.00	0.00
ATOM 1805	HB	THR A 117	0.963	-14.453	0.729	1.00	0.00
ATOM 1806	HG1	THR A 117	-1.804	-14.486	1.333	1.00	0.00
ATOM 1807	1HG2	THR A 117	1.042	-14.043	3.222	1.00	0.00
ATOM 1808	2HG2	THR A 117	0.553	-15.655	2.697	1.00	0.00
ATOM 1809	3HG2	THR A 117	-0.661	-14.499	3.246	1.00	0.00

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ATOM 1810	N	LEU A 118	0.571	-11.331	-0.808	1.00	0.00
ATOM 1811	CA	LEU A 118	0.355	-10.855	-2.170	1.00	0.00
ATOM 1812	C	LEU A 118	1.594	-11.083	-3.030	1.00	0.00
ATOM 1813	O	LEU A 118	2.696	-11.267	-2.513	1.00	0.00
ATOM 1814	CB	LEU A 118	-0.012	-9.369	-2.161	1.00	0.00
ATOM 1815	CG	LEU A 118	1.003	-8.452	-1.476	1.00	0.00
ATOM 1816	CD1	LEU A 118	2.032	-7.955	-2.479	1.00	0.00
ATOM 1817	CD2	LEU A 118	0.296	-7.282	-0.808	1.00	0.00
ATOM 1818	H	LEU A 118	1.367	-11.037	-0.319	1.00	0.00
ATOM 1819	HA	LEU A 118	-0.467	-11.416	-2.589	1.00	0.00
ATOM 1820	1HB	LEU A 118	-0.126	-9.043	-3.185	1.00	0.00
ATOM 1821	2HB	LEU A 118	-0.959	-9.256	-1.659	1.00	0.00
ATOM 1822	HG	LEU A 118	1.525	-9.010	-0.713	1.00	0.00
ATOM 1823	1HD1	LEU A 118	1.530	-7.433	-3.279	1.00	0.00
ATOM 1824	2HD1	LEU A 118	2.577	-8.795	-2.882	1.00	0.00
ATOM 1825	3HD1	LEU A 118	2.719	-7.284	-1.986	1.00	0.00
ATOM 1826	1HD2	LEU A 118	-0.673	-7.141	-1.261	1.00	0.00
ATOM 1827	2HD2	LEU A 118	0.886	-6.385	-0.933	1.00	0.00
ATOM 1828	3HD2	LEU A 118	0.176	-7.489	0.245	1.00	0.00
ATOM 1829	N	ASP A 119	1.403	-11.073	-4.346	1.00	0.00
ATOM 1830	CA	ASP A 119	2.503	-11.280	-5.280	1.00	0.00
ATOM 1831	C	ASP A 119	3.306	-9.998	-5.474	1.00	0.00
ATOM 1832	O	ASP A 119	2.825	-8.903	-5.181	1.00	0.00
ATOM 1833	CB	ASP A 119	1.967	-11.774	-6.627	1.00	0.00
ATOM 1834	CG	ASP A 119	2.423	-13.184	-6.949	1.00	0.00
ATOM 1835	OD1	ASP A 119	3.400	-13.333	-7.711	1.00	0.00
ATOM 1836	OD2	ASP A 119	1.801	-14.140	-6.438	1.00	0.00

ATOM 1837	H	ASP A 119	0.501	-10.922	-4.696	1.00	0.00
ATOM 1838	HA	ASP A 119	3.153	-12.036	-4.862	1.00	0.00
ATOM 1839	1HB	ASP A 119	0.888	-11.763	-6.603	1.00	0.00
ATOM 1840	2HB	ASP A 119	2.313	-11.116	-7.409	1.00	0.00
ATOM 1841	N	ARG A 120	4.531	-10.141	-5.969	1.00	0.00
ATOM 1842	CA	ARG A 120	5.401	-8.995	-6.203	1.00	0.00
ATOM 1843	C	ARG A 120	5.336	-8.551	-7.661	1.00	0.00
ATOM 1844	O	ARG A 120	5.280	-7.357	-7.955	1.00	0.00
ATOM 1845	CB	ARG A 120	6.844	-9.337	-5.829	1.00	0.00
ATOM 1846	CG	ARG A 120	7.777	-8.136	-5.843	1.00	0.00
ATOM 1847	CD	ARG A 120	9.087	-8.454	-6.543	1.00	0.00
ATOM 1848	NE	ARG A 120	8.919	-8.578	-7.989	1.00	0.00
ATOM 1849	CZ	ARG A 120	9.922	-8.501	-8.862	1.00	0.00
ATOM 1850	NH1	ARG A 120	11.164	-8.302	-8.439	1.00	0.00
ATOM 1851	NH2	ARG A 120	9.682	-8.623	-10.160	1.00	0.00
ATOM 1852	H	ARG A 120	4.858	-11.040	-6.183	1.00	0.00
ATOM 1853	HA	ARG A 120	5.059	-8.186	-5.577	1.00	0.00
ATOM 1854	1HB	ARG A 120	6.855	-9.763	-4.837	1.00	0.00
ATOM 1855	2HB	ARG A 120	7.221	-10.068	-6.530	1.00	0.00
ATOM 1856	1HG	ARG A 120	7.292	-7.323	-6.360	1.00	0.00
ATOM 1857	2HG	ARG A 120	7.984	-7.844	-4.823	1.00	0.00
ATOM 1858	1HD	ARG A 120	9.792	-7.661	-6.339	1.00	0.00
ATOM 1859	2HD	ARG A 120	9.472	-9.385	-6.154	1.00	0.00
ATOM 1860	HE	ARG A 120	8.012	-8.726	-8.328	1.00	0.00
ATOM 1861	1HH1	ARG A 120	11.352	-8.207	-7.462	1.00	0.00
ATOM 1862	2HH1	ARG A 120	11.913	-8.244	-9.099	1.00	0.00
ATOM 1863	1HH2	ARG A 120	8.748	-8.774	-10.484	1.00	0.00

ATOM	1864	2HH2	ARG	A	120	10.435	-8.565	-10.815	1.00	0.00
ATOM	1865	N	LYS	A	121	5.344	-9.521	-8.571	1.00	0.00
ATOM	1866	CA	LYS	A	121	5.286	-9.231	-10.000	1.00	0.00
ATOM	1867	C	LYS	A	121	4.021	-8.453	-10.347	1.00	0.00
ATOM	1868	O	LYS	A	121	4.019	-7.626	-11.259	1.00	0.00
ATOM	1869	CB	LYS	A	121	5.343	-10.531	-10.807	1.00	0.00
ATOM	1870	CG	LYS	A	121	6.563	-10.634	-11.707	1.00	0.00
ATOM	1871	CD	LYS	A	121	7.070	-12.065	-11.800	1.00	0.00
ATOM	1872	CE	LYS	A	121	8.289	-12.285	-10.918	1.00	0.00
ATOM	1873	NZ	LYS	A	121	9.523	-12.513	-11.721	1.00	0.00
ATOM	1874	H	LYS	A	121	5.390	-10.454	-8.275	1.00	0.00
ATOM	1875	HA	LYS	A	121	6.145	-8.626	-10.248	1.00	0.00
ATOM	1876	1HB	LYS	A	121	5.358	-11.366	-10.121	1.00	0.00
ATOM	1877	2HB	LYS	A	121	4.460	-10.600	-11.424	1.00	0.00
ATOM	1878	1HG	LYS	A	121	6.297	-10.293	-12.697	1.00	0.00
ATOM	1879	2HG	LYS	A	121	7.348	-10.008	-11.307	1.00	0.00
ATOM	1880	1HD	LYS	A	121	6.285	-12.736	-11.483	1.00	0.00
ATOM	1881	2HD	LYS	A	121	7.336	-12.276	-12.825	1.00	0.00
ATOM	1882	1HE	LYS	A	121	8.433	-11.414	-10.296	1.00	0.00
ATOM	1883	2HE	LYS	A	121	8.114	-13.148	-10.291	1.00	0.00
ATOM	1884	1HZ	LYS	A	121	10.338	-12.062	-11.260	1.00	0.00
ATOM	1885	2HZ	LYS	A	121	9.409	-12.110	-12.672	1.00	0.00
ATOM	1886	3HZ	LYS	A	121	9.708	-13.533	-11.810	1.00	0.00
ATOM	1887	N	SER	A	122	2.946	-8.721	-9.611	1.00	0.00
ATOM	1888	CA	SER	A	122	1.675	-8.043	-9.841	1.00	0.00
ATOM	1889	C	SER	A	122	1.753	-6.580	-9.417	1.00	0.00
ATOM	1890	O	SER	A	122	1.014	-5.736	-9.927	1.00	0.00

ATOM 1891	CB	SER A 122	0.554	-8.747	-9.075	1.00	0.00
ATOM 1892	OG	SER A 122	0.581	-8.406	-7.700	1.00	0.00
ATOM 1893	H	SER A 122	3.010	-9.389	-8.897	1.00	0.00
ATOM 1894	HA	SER A 122	1.461	-8.089	-10.898	1.00	0.00
ATOM 1895	1HB	SER A 122	-0.400	-8.454	-9.487	1.00	0.00
ATOM 1896	2HB	SER A 122	0.671	-9.817	-9.171	1.00	0.00
ATOM 1897	HG	SER A 122	0.742	-9.195	-7.177	1.00	0.00
ATOM 1898	N	VAL A 123	2.651	-6.284	-8.482	1.00	0.00
ATOM 1899	CA	VAL A 123	2.824	-4.921	-7.991	1.00	0.00
ATOM 1900	C	VAL A 123	3.159	-3.965	-9.131	1.00	0.00
ATOM 1901	O	VAL A 123	3.733	-4.367	-10.144	1.00	0.00
ATOM 1902	CB	VAL A 123	3.934	-4.845	-6.925	1.00	0.00
ATOM 1903	CG1	VAL A 123	4.027	-3.441	-6.345	1.00	0.00
ATOM 1904	CG2	VAL A 123	3.689	-5.866	-5.825	1.00	0.00
ATOM 1905	H	VAL A 123	3.211	-6.998	-8.113	1.00	0.00
ATOM 1906	HA	VAL A 123	1.895	-4.611	-7.536	1.00	0.00
ATOM 1907	HB	VAL A 123	4.876	-5.077	-7.399	1.00	0.00
ATOM 1908	1HG1	VAL A 123	4.713	-3.442	-5.510	1.00	0.00
ATOM 1909	2HG1	VAL A 123	3.051	-3.125	-6.010	1.00	0.00
ATOM 1910	3HG1	VAL A 123	4.385	-2.761	-7.104	1.00	0.00
ATOM 1911	1HG2	VAL A 123	3.769	-6.862	-6.234	1.00	0.00
ATOM 1912	2HG2	VAL A 123	2.700	-5.724	-5.415	1.00	0.00
ATOM 1913	3HG2	VAL A 123	4.424	-5.737	-5.044	1.00	0.00
ATOM 1914	N	PHE A 124	2.798	-2.698	-8.960	1.00	0.00
ATOM 1915	CA	PHE A 124	3.061	-1.684	-9.974	1.00	0.00
ATOM 1916	C	PHE A 124	2.778	-0.288	-9.432	1.00	0.00
ATOM 1917	O	PHE A 124	1.640	0.044	-9.101	1.00	0.00

ATOM	1918	CB	PHE A 124	2.207	-1.942	-11.217	1.00	0.00
ATOM	1919	CG	PHE A 124	2.833	-1.446	-12.490	1.00	0.00
ATOM	1920	CD1	PHE A 124	2.963	-2.285	-13.585	1.00	0.00
ATOM	1921	CD2	PHE A 124	3.288	-0.141	-12.591	1.00	0.00
ATOM	1922	CE1	PHE A 124	3.538	-1.831	-14.757	1.00	0.00
ATOM	1923	CE2	PHE A 124	3.864	0.318	-13.761	1.00	0.00
ATOM	1924	CZ	PHE A 124	3.989	-0.528	-14.845	1.00	0.00
ATOM	1925	H	PHE A 124	2.344	-2.438	-8.131	1.00	0.00
ATOM	1926	HA	PHE A 124	4.104	-1.749	-10.245	1.00	0.00
ATOM	1927	1HB	PHE A 124	2.045	-3.005	-11.320	1.00	0.00
ATOM	1928	2HB	PHE A 124	1.253	-1.448	-11.099	1.00	0.00
ATOM	1929	HD1	PHE A 124	2.611	-3.303	-13.518	1.00	0.00
ATOM	1930	HD2	PHE A 124	3.191	0.521	-11.744	1.00	0.00
ATOM	1931	HE1	PHE A 124	3.635	-2.494	-15.604	1.00	0.00
ATOM	1932	HE2	PHE A 124	4.215	1.337	-13.826	1.00	0.00
ATOM	1933	HZ	PHE A 124	4.438	-0.171	-15.761	1.00	0.00
ATOM	1934	N	VAL A 125	3.822	0.530	-9.345	1.00	0.00
ATOM	1935	CA	VAL A 125	3.688	1.891	-8.846	1.00	0.00
ATOM	1936	C	VAL A 125	4.129	2.906	-9.899	1.00	0.00
ATOM	1937	O	VAL A 125	5.245	3.423	-9.852	1.00	0.00
ATOM	1938	CB	VAL A 125	4.509	2.098	-7.556	1.00	0.00
ATOM	1939	CG1	VAL A 125	5.987	1.829	-7.807	1.00	0.00
ATOM	1940	CG2	VAL A 125	4.296	3.500	-6.999	1.00	0.00
ATOM	1941	H	VAL A 125	4.705	0.208	-9.627	1.00	0.00
ATOM	1942	HA	VAL A 125	2.647	2.059	-8.615	1.00	0.00
ATOM	1943	HB	VAL A 125	4.162	1.389	-6.819	1.00	0.00
ATOM	1944	1HG1	VAL A 125	6.567	2.691	-7.511	1.00	0.00



ATOM 1945	2HG1	VAL	A	125	6.145	1.632	-8.857	1.00	0.00
ATOM 1946	3HG1	VAL	A	125	6.299	0.971	-7.230	1.00	0.00
ATOM 1947	1HG2	VAL	A	125	3.623	3.454	-6.157	1.00	0.00
ATOM 1948	2HG2	VAL	A	125	3.870	4.132	-7.765	1.00	0.00
ATOM 1949	3HG2	VAL	A	125	5.243	3.910	-6.681	1.00	0.00
ATOM 1950	N	ASP	A	126	3.245	3.182	-10.851	1.00	0.00
ATOM 1951	CA	ASP	A	126	3.541	4.131	-11.917	1.00	0.00
ATOM 1952	C	ASP	A	126	2.963	5.507	-11.603	1.00	0.00
ATOM 1953	O	ASP	A	126	1.917	5.620	-10.964	1.00	0.00
ATOM 1954	CB	ASP	A	126	2.983	3.621	-13.249	1.00	0.00
ATOM 1955	CG	ASP	A	126	3.941	3.843	-14.405	1.00	0.00
ATOM 1956	OD1	ASP	A	126	5.104	4.218	-14.152	1.00	0.00
ATOM 1957	OD2	ASP	A	126	3.526	3.638	-15.565	1.00	0.00
ATOM 1958	H	ASP	A	126	2.371	2.737	-10.836	1.00	0.00
ATOM 1959	HA	ASP	A	126	4.615	4.215	-11.996	1.00	0.00
ATOM 1960	1HB	ASP	A	126	2.786	2.563	-13.168	1.00	0.00
ATOM 1961	2HB	ASP	A	126	2.059	4.139	-13.467	1.00	0.00
ATOM 1962	N	SER	A	127	3.650	6.550	-12.055	1.00	0.00
ATOM 1963	CA	SER	A	127	3.204	7.919	-11.822	1.00	0.00
ATOM 1964	C	SER	A	127	1.962	8.234	-12.650	1.00	0.00
ATOM 1965	O	SER	A	127	2.059	8.564	-13.832	1.00	0.00
ATOM 1966	CB	SER	A	127	4.322	8.906	-12.163	1.00	0.00
ATOM 1967	OG	SER	A	127	3.861	10.245	-12.093	1.00	0.00
ATOM 1968	H	SER	A	127	4.477	6.396	-12.558	1.00	0.00
ATOM 1969	HA	SER	A	127	2.958	8.015	-10.776	1.00	0.00
ATOM 1970	1HB	SER	A	127	5.135	8.782	-11.462	1.00	0.00
ATOM 1971	2HB	SER	A	127	4.678	8.713	-13.165	1.00	0.00

ATOM 1972	HG	SER A 127	4.596	10.825	-11.880	1.00	0.00
ATOM 1973	N	GLY A 128	0.795	8.129	-12.022	1.00	0.00
ATOM 1974	CA	GLY A 128	-0.450	8.405	-12.714	1.00	0.00
ATOM 1975	C	GLY A 128	-0.613	7.567	-13.972	1.00	0.00
ATOM 1976	O	GLY A 128	-0.418	6.353	-13.935	1.00	0.00
ATOM 1977	H	GLY A 128	0.780	7.862	-11.079	1.00	0.00
ATOM 1978	1HA	GLY A 128	-1.273	8.195	-12.046	1.00	0.00
ATOM 1979	2HA	GLY A 128	-0.476	9.449	-12.981	1.00	0.00
ATOM 1980	N	PRO A 129	-0.970	8.189	-15.110	1.00	0.00
ATOM 1981	CA	PRO A 129	-1.150	7.468	-16.375	1.00	0.00
ATOM 1982	C	PRO A 129	0.164	6.909	-16.912	1.00	0.00
ATOM 1983	O	PRO A 129	0.247	5.736	-17.277	1.00	0.00
ATOM 1984	CB	PRO A 129	-1.703	8.535	-17.324	1.00	0.00
ATOM 1985	CG	PRO A 129	-1.250	9.832	-16.747	1.00	0.00
ATOM 1986	CD	PRO A 129	-1.223	9.634	-15.257	1.00	0.00
ATOM 1987	HA	PRO A 129	-1.866	6.666	-16.275	1.00	0.00
ATOM 1988	1HB	PRO A 129	-1.302	8.382	-18.316	1.00	0.00
ATOM 1989	2HB	PRO A 129	-2.780	8.472	-17.352	1.00	0.00
ATOM 1990	1HG	PRO A 129	-0.262	10.071	-17.112	1.00	0.00
ATOM 1991	2HG	PRO A 129	-1.948	10.614	-17.008	1.00	0.00
ATOM 1992	1HD	PRO A 129	-0.426	10.212	-14.815	1.00	0.00
ATOM 1993	2HD	PRO A 129	-2.174	9.905	-14.824	1.00	0.00
ATOM 1994	N	SER A 130	1.187	7.755	-16.955	1.00	0.00
ATOM 1995	CA	SER A 130	2.500	7.347	-17.444	1.00	0.00
ATOM 1996	C	SER A 130	2.408	6.807	-18.868	1.00	0.00
ATOM 1997	O	SER A 130	3.122	5.875	-19.237	1.00	0.00
ATOM 1998	CB	SER A 130	3.103	6.285	-16.522	1.00	0.00

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ATOM	1999	OG	SER A 130	4.508	6.437	-16.420	1.00	0.00
ATOM	2000	H	SER A 130	1.059	8.677	-16.648	1.00	0.00
ATOM	2001	HA	SER A 130	3.139	8.217	-17.442	1.00	0.00
ATOM	2002	1HB	SER A 130	2.670	6.380	-15.537	1.00	0.00
ATOM	2003	2HB	SER A 130	2.886	5.304	-16.917	1.00	0.00
ATOM	2004	HG	SER A 130	4.775	6.325	-15.505	1.00	0.00
ATOM	2005	N	SER A 131	1.525	7.401	-19.665	1.00	0.00
ATOM	2006	CA	SER A 131	1.341	6.980	-21.049	1.00	0.00
ATOM	2007	C	SER A 131	2.425	7.570	-21.946	1.00	0.00
ATOM	2008	O	SER A 131	2.189	8.541	-22.666	1.00	0.00
ATOM	2009	CB	SER A 131	-0.040	7.402	-21.553	1.00	0.00
ATOM	2010	OG	SER A 131	-0.109	8.805	-21.741	1.00	0.00
ATOM	2011	H	SER A 131	0.985	8.139	-19.313	1.00	0.00
ATOM	2012	HA	SER A 131	1.412	5.903	-21.080	1.00	0.00
ATOM	2013	1HB	SER A 131	-0.242	6.916	-22.495	1.00	0.00
ATOM	2014	2HB	SER A 131	-0.789	7.111	-20.830	1.00	0.00
ATOM	2015	HG	SER A 131	-0.912	9.025	-22.219	1.00	0.00
ATOM	2016	N	GLY A 132	3.613	6.978	-21.895	1.00	0.00
ATOM	2017	CA	GLY A 132	4.716	7.458	-22.707	1.00	0.00
ATOM	2018	C	GLY A 132	5.715	6.366	-23.032	1.00	0.00
ATOM	2019	H	GLY A 132	3.743	6.209	-21.302	1.00	0.00
ATOM	2020	1HA	GLY A 132	4.322	7.858	-23.630	1.00	0.00
ATOM	2021	2HA	GLY A 132	5.224	8.248	-22.174	1.00	0.00
TER	2022		GLY A 132					

ENDMDL

Three-Dimensional Structure Coordinate 19

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ATOM 1	N	GLY A	1	-4.479	40.425	-4.476	1.00	0.00
ATOM 2	CA	GLY A	1	-4.727	39.227	-5.324	1.00	0.00
ATOM 3	C	GLY A	1	-4.390	37.932	-4.613	1.00	0.00
ATOM 4	O	GLY A	1	-5.245	37.332	-3.962	1.00	0.00
ATOM 5	1H	GLY A	1	-3.564	40.854	-4.722	1.00	0.00
ATOM 6	2H	GLY A	1	-4.463	40.155	-3.472	1.00	0.00
ATOM 7	3H	GLY A	1	-5.230	41.129	-4.621	1.00	0.00
ATOM 8	1HA	GLY A	1	-5.770	39.210	-5.606	1.00	0.00
ATOM 9	2HA	GLY A	1	-4.126	39.302	-6.218	1.00	0.00
ATOM 10	N	SER A	2	-3.140	37.499	-4.738	1.00	0.00
ATOM 11	CA	SER A	2	-2.691	36.266	-4.102	1.00	0.00
ATOM 12	C	SER A	2	-2.719	36.395	-2.583	1.00	0.00
ATOM 13	O	SER A	2	-2.237	37.380	-2.025	1.00	0.00
ATOM 14	CB	SER A	2	-1.278	35.911	-4.570	1.00	0.00
ATOM 15	OG	SER A	2	-1.129	34.511	-4.724	1.00	0.00
ATOM 16	H	SER A	2	-2.505	38.021	-5.271	1.00	0.00
ATOM 17	HA	SER A	2	-3.366	35.476	-4.397	1.00	0.00
ATOM 18	1HB	SER A	2	-1.085	36.389	-5.519	1.00	0.00
ATOM 19	2HB	SER A	2	-0.562	36.259	-3.840	1.00	0.00
ATOM 20	HG	SER A	2	-0.400	34.331	-5.323	1.00	0.00
ATOM 21	N	SER A	3	-3.289	35.394	-1.920	1.00	0.00
ATOM 22	CA	SER A	3	-3.380	35.395	-0.464	1.00	0.00
ATOM 23	C	SER A	3	-2.452	34.347	0.140	1.00	0.00
ATOM 24	O	SER A	3	-1.934	34.525	1.243	1.00	0.00
ATOM 25	CB	SER A	3	-4.822	35.133	-0.022	1.00	0.00
ATOM 26	OG	SER A	3	-5.701	36.113	-0.542	1.00	0.00
ATOM 27	H	SER A	3	-3.656	34.636	-2.420	1.00	0.00

ATOM 28	HA	SER A	3	-3.078	36.372	-0.114	1.00	0.00
ATOM 29	1HB	SER A	3	-5.133	34.163	-0.378	1.00	0.00
ATOM 30	2HB	SER A	3	-4.874	35.154	1.056	1.00	0.00
ATOM 31	HG	SER A	3	-6.601	35.909	-0.277	1.00	0.00
ATOM 32	N	GLY A	4	-2.245	33.256	-0.588	1.00	0.00
ATOM 33	CA	GLY A	4	-1.378	32.197	-0.108	1.00	0.00
ATOM 34	C	GLY A	4	-0.513	31.610	-1.207	1.00	0.00
ATOM 35	O	GLY A	4	-0.399	30.391	-1.332	1.00	0.00
ATOM 36	H	GLY A	4	-2.684	33.170	-1.461	1.00	0.00
ATOM 37	1HA	GLY A	4	-0.738	32.593	0.666	1.00	0.00
ATOM 38	2HA	GLY A	4	-1.988	31.411	0.313	1.00	0.00
ATOM 39	N	SER A	5	0.098	32.481	-2.003	1.00	0.00
ATOM 40	CA	SER A	5	0.957	32.043	-3.098	1.00	0.00
ATOM 41	C	SER A	5	0.177	31.197	-4.097	1.00	0.00
ATOM 42	O	SER A	5	-1.014	30.944	-3.915	1.00	0.00
ATOM 43	CB	SER A	5	2.144	31.246	-2.554	1.00	0.00
ATOM 44	OG	SER A	5	3.259	32.089	-2.316	1.00	0.00
ATOM 45	H	SER A	5	-0.033	33.441	-1.852	1.00	0.00
ATOM 46	HA	SER A	5	1.327	32.924	-3.601	1.00	0.00
ATOM 47	1HB	SER A	5	1.863	30.773	-1.624	1.00	0.00
ATOM 48	2HB	SER A	5	2.427	30.490	-3.272	1.00	0.00
ATOM 49	HG	SER A	5	3.965	31.866	-2.925	1.00	0.00
ATOM 50	N	SER A	6	0.856	30.760	-5.153	1.00	0.00
ATOM 51	CA	SER A	6	0.226	29.942	-6.182	1.00	0.00
ATOM 52	C	SER A	6	0.560	28.466	-5.983	1.00	0.00
ATOM 53	O	SER A	6	1.237	28.097	-5.024	1.00	0.00
ATOM 54	CB	SER A	6	0.676	30.397	-7.572	1.00	0.00

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ATOM 55	OG	SER A	6	-0.430	30.528	-8.449	1.00	0.00
ATOM 56	H	SER A	6	1.803	30.995	-5.242	1.00	0.00
ATOM 57	HA	SER A	6	-0.842	30.071	-6.099	1.00	0.00
ATOM 58	1HB	SER A	6	1.170	31.355	-7.492	1.00	0.00
ATOM 59	2HB	SER A	6	1.362	29.672	-7.983	1.00	0.00
ATOM 60	HG	SER A	6	-0.574	31.456	-8.648	1.00	0.00
ATOM 61	N	GLY A	7	0.079	27.628	-6.896	1.00	0.00
ATOM 62	CA	GLY A	7	0.338	26.204	-6.802	1.00	0.00
ATOM 63	C	GLY A	7	-0.165	25.442	-8.013	1.00	0.00
ATOM 64	O	GLY A	7	0.572	24.656	-8.609	1.00	0.00
ATOM 65	H	GLY A	7	-0.454	27.980	-7.639	1.00	0.00
ATOM 66	1HA	GLY A	7	1.402	26.047	-6.709	1.00	0.00
ATOM 67	2HA	GLY A	7	-0.151	25.818	-5.919	1.00	0.00
ATOM 68	N	SER A	8	-1.423	25.674	-8.376	1.00	0.00
ATOM 69	CA	SER A	8	-2.031	25.005	-9.523	1.00	0.00
ATOM 70	C	SER A	8	-2.216	23.516	-9.252	1.00	0.00
ATOM 71	O	SER A	8	-3.340	23.036	-9.113	1.00	0.00
ATOM 72	CB	SER A	8	-1.176	25.209	-10.777	1.00	0.00
ATOM 73	OG	SER A	8	-1.866	24.784	-11.939	1.00	0.00
ATOM 74	H	SER A	8	-1.958	26.313	-7.859	1.00	0.00
ATOM 75	HA	SER A	8	-3.001	25.451	-9.686	1.00	0.00
ATOM 76	1HB	SER A	8	-0.934	26.256	-10.881	1.00	0.00
ATOM 77	2HB	SER A	8	-0.264	24.637	-10.686	1.00	0.00
ATOM 78	HG	SER A	8	-2.771	25.104	-11.909	1.00	0.00
ATOM 79	N	SER A	9	-1.105	22.789	-9.180	1.00	0.00
ATOM 80	CA	SER A	9	-1.146	21.353	-8.926	1.00	0.00
ATOM 81	C	SER A	9	-0.175	20.970	-7.815	1.00	0.00

ATOM 82	O	SER A	9	1.033	20.883	-8.035	1.00	0.00
ATOM 83	CB	SER A	9	-0.811	20.579	-10.202	1.00	0.00
ATOM 84	OG	SER A	9	-1.492	21.119	-11.321	1.00	0.00
ATOM 85	H	SER A	9	-0.237	23.227	-9.300	1.00	0.00
ATOM 86	HA	SER A	9	-2.149	21.100	-8.615	1.00	0.00
ATOM 87	1HB	SER A	9	0.252	20.632	-10.384	1.00	0.00
ATOM 88	2HB	SER A	9	-1.104	19.547	-10.081	1.00	0.00
ATOM 89	HG	SER A	9	-1.024	20.884	-12.125	1.00	0.00
ATOM 90	N	SER A	10	-0.710	20.744	-6.620	1.00	0.00
ATOM 91	CA	SER A	10	0.109	20.372	-5.474	1.00	0.00
ATOM 92	C	SER A	10	0.090	18.862	-5.256	1.00	0.00
ATOM 93	O	SER A	10	-0.841	18.175	-5.679	1.00	0.00
ATOM 94	CB	SER A	10	-0.383	21.086	-4.214	1.00	0.00
ATOM 95	OG	SER A	10	-1.754	21.430	-4.325	1.00	0.00
ATOM 96	H	SER A	10	-1.681	20.830	-6.507	1.00	0.00
ATOM 97	HA	SER A	10	1.124	20.679	-5.677	1.00	0.00
ATOM 98	1HB	SER A	10	-0.256	20.438	-3.360	1.00	0.00
ATOM 99	2HB	SER A	10	0.190	21.991	-4.068	1.00	0.00
ATOM 100	HG	SER A	10	-2.025	21.921	-3.546	1.00	0.00
ATOM 101	N	SER A	11	1.123	18.352	-4.594	1.00	0.00
ATOM 102	CA	SER A	11	1.227	16.924	-4.319	1.00	0.00
ATOM 103	C	SER A	11	1.273	16.120	-5.615	1.00	0.00
ATOM 104	O	SER A	11	1.215	16.682	-6.709	1.00	0.00
ATOM 105	CB	SER A	11	0.050	16.460	-3.459	1.00	0.00
ATOM 106	OG	SER A	11	-0.491	17.536	-2.713	1.00	0.00
ATOM 107	H	SER A	11	1.833	18.951	-4.282	1.00	0.00
ATOM 108	HA	SER A	11	2.145	16.757	-3.775	1.00	0.00

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ATOM 109	1HB	SER A	11	-0.723	16.057	-4.097	1.00	0.00
ATOM 110	2HB	SER A	11	0.386	15.696	-2.774	1.00	0.00
ATOM 111	N	GLN A	12	1.376	14.801	-5.484	1.00	0.00
ATOM 112	CA	GLN A	12	1.429	13.918	-6.643	1.00	0.00
ATOM 113	C	GLN A	12	0.669	12.624	-6.373	1.00	0.00
ATOM 114	O	GLN A	12	0.293	12.339	-5.236	1.00	0.00
ATOM 115	CB	GLN A	12	2.883	13.606	-7.007	1.00	0.00
ATOM 116	CG	GLN A	12	3.751	13.254	-5.809	1.00	0.00
ATOM 117	CD	GLN A	12	5.186	13.715	-5.976	1.00	0.00
ATOM 118	OE1	GLN A	12	6.014	13.010	-6.552	1.00	0.00
ATOM 119	NE2	GLN A	12	5.487	14.906	-5.471	1.00	0.00
ATOM 120	H	GLN A	12	1.418	14.413	-4.584	1.00	0.00
ATOM 121	HA	GLN A	12	0.963	14.430	-7.471	1.00	0.00
ATOM 122	1HB	GLN A	12	2.899	12.772	-7.692	1.00	0.00
ATOM 123	2HB	GLN A	12	3.312	14.469	-7.494	1.00	0.00
ATOM 124	1HG	GLN A	12	3.339	13.724	-4.930	1.00	0.00
ATOM 125	2HG	GLN A	12	3.745	12.183	-5.680	1.00	0.00
ATOM 126	1HE2	GLN A	12	4.776	15.413	-5.025	1.00	0.00
ATOM 127	2HE2	GLN A	12	6.408	15.229	-5.563	1.00	0.00
ATOM 128	N	HIS A	13	0.444	11.843	-7.427	1.00	0.00
ATOM 129	CA	HIS A	13	-0.276	10.581	-7.301	1.00	0.00
ATOM 130	C	HIS A	13	0.390	9.483	-8.124	1.00	0.00
ATOM 131	O	HIS A	13	0.643	9.653	-9.317	1.00	0.00
ATOM 132	CB	HIS A	13	-1.728	10.754	-7.750	1.00	0.00
ATOM 133	CG	HIS A	13	-2.517	11.687	-6.886	1.00	0.00
ATOM 134	ND1	HIS A	13	-3.540	12.475	-7.368	1.00	0.00
ATOM 135	CD2	HIS A	13	-2.432	11.955	-5.560	1.00	0.00



ATOM 136	CE1	HIS A	13	-4.049	13.189	-6.379	1.00	0.00
ATOM 137	NE2	HIS A	13	-3.394	12.892	-5.271	1.00	0.00
ATOM 138	H	HIS A	13	0.767	12.124	-8.308	1.00	0.00
ATOM 139	HA	HIS A	13	-0.262	10.293	-6.261	1.00	0.00
ATOM 140	1HB	HIS A	13	-1.742	11.143	-8.756	1.00	0.00
ATOM 141	2HB	HIS A	13	-2.219	9.791	-7.736	1.00	0.00
ATOM 142	HD1	HIS A	13	-3.849	12.508	-8.298	1.00	0.00
ATOM 143	HD2	HIS A	13	-1.736	11.515	-4.861	1.00	0.00
ATOM 144	HE1	HIS A	13	-4.862	13.894	-6.461	1.00	0.00
ATOM 145	HE2	HIS A	13	-3.634	13.201	-4.374	1.00	0.00
ATOM 146	N	PHE A	14	0.664	8.351	-7.481	1.00	0.00
ATOM 147	CA	PHE A	14	1.292	7.219	-8.155	1.00	0.00
ATOM 148	C	PHE A	14	0.366	6.006	-8.141	1.00	0.00
ATOM 149	O	PHE A	14	0.131	5.405	-7.093	1.00	0.00
ATOM 150	CB	PHE A	14	2.623	6.868	-7.485	1.00	0.00
ATOM 151	CG	PHE A	14	3.600	8.008	-7.450	1.00	0.00
ATOM 152	CD1	PHE A	14	4.407	8.278	-8.544	1.00	0.00
ATOM 153	CD2	PHE A	14	3.712	8.808	-6.325	1.00	0.00
ATOM 154	CE1	PHE A	14	5.308	9.326	-8.515	1.00	0.00
ATOM 155	CE2	PHE A	14	4.612	9.857	-6.291	1.00	0.00
ATOM 156	CZ	PHE A	14	5.410	10.116	-7.386	1.00	0.00
ATOM 157	H	PHE A	14	0.432	8.274	-6.532	1.00	0.00
ATOM 158	HA	PHE A	14	1.478	7.504	-9.179	1.00	0.00
ATOM 159	1HB	PHE A	14	2.435	6.561	-6.467	1.00	0.00
ATOM 160	2HB	PHE A	14	3.083	6.051	-8.023	1.00	0.00
ATOM 161	HD1	PHE A	14	4.328	7.662	-9.426	1.00	0.00
ATOM 162	HD2	PHE A	14	3.088	8.607	-5.467	1.00	0.00

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ATOM 163	HE1	PHE	A	14	5.932	9.526	-9.374	1.00	0.00
ATOM 164	HE2	PHE	A	14	4.690	10.473	-5.406	1.00	0.00
ATOM 165	HZ	PHE	A	14	6.115	10.935	-7.362	1.00	0.00
ATOM 166	N	ASN	A	15	-0.163	5.659	-9.311	1.00	0.00
ATOM 167	CA	ASN	A	15	-1.072	4.522	-9.437	1.00	0.00
ATOM 168	C	ASN	A	15	-0.486	3.267	-8.796	1.00	0.00
ATOM 169	O	ASN	A	15	0.426	2.646	-9.343	1.00	0.00
ATOM 170	CB	ASN	A	15	-1.383	4.256	-10.912	1.00	0.00
ATOM 171	CG	ASN	A	15	-2.808	3.786	-11.127	1.00	0.00
ATOM 172	OD1	ASN	A	15	-3.477	3.345	-10.191	1.00	0.00
ATOM 173	ND2	ASN	A	15	-3.282	3.878	-12.364	1.00	0.00
ATOM 174	H	ASN	A	15	0.060	6.182	-10.109	1.00	0.00
ATOM 175	HA	ASN	A	15	-1.989	4.775	-8.927	1.00	0.00
ATOM 176	1HB	ASN	A	15	-1.236	5.165	-11.474	1.00	0.00
ATOM 177	2HB	ASN	A	15	-0.712	3.495	-11.283	1.00	0.00
ATOM 178	1HD2	ASN	A	15	-2.693	4.240	-13.060	1.00	0.00
ATOM 179	2HD2	ASN	A	15	-4.201	3.582	-12.531	1.00	0.00
ATOM 180	N	LEU	A	16	-1.019	2.899	-7.635	1.00	0.00
ATOM 181	CA	LEU	A	16	-0.554	1.718	-6.918	1.00	0.00
ATOM 182	C	LEU	A	16	-1.266	0.465	-7.420	1.00	0.00
ATOM 183	O	LEU	A	16	-2.473	0.483	-7.666	1.00	0.00
ATOM 184	CB	LEU	A	16	-0.788	1.886	-5.415	1.00	0.00
ATOM 185	CG	LEU	A	16	-0.054	0.882	-4.523	1.00	0.00
ATOM 186	CD1	LEU	A	16	1.452	1.075	-4.625	1.00	0.00
ATOM 187	CD2	LEU	A	16	-0.513	1.020	-3.079	1.00	0.00
ATOM 188	H	LEU	A	16	-1.746	3.433	-7.252	1.00	0.00
ATOM 189	HA	LEU	A	16	0.504	1.613	-7.101	1.00	0.00

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ATOM 190	1HB	LEU	A	16	-0.477	2.881	-5.134	1.00	0.00
ATOM 191	2HB	LEU	A	16	-1.847	1.793	-5.225	1.00	0.00
ATOM 192	HG	LEU	A	16	-0.285	-0.121	-4.854	1.00	0.00
ATOM 193	1HD1	LEU	A	16	1.746	1.926	-4.029	1.00	0.00
ATOM 194	2HD1	LEU	A	16	1.726	1.243	-5.655	1.00	0.00
ATOM 195	3HD1	LEU	A	16	1.952	0.190	-4.259	1.00	0.00
ATOM 196	1HD2	LEU	A	16	-1.252	0.262	-2.862	1.00	0.00
ATOM 197	2HD2	LEU	A	16	-0.946	1.998	-2.931	1.00	0.00
ATOM 198	3HD2	LEU	A	16	0.333	0.897	-2.418	1.00	0.00
ATOM 199	N	ASN	A	17	-0.515	-0.620	-7.576	1.00	0.00
ATOM 200	CA	ASN	A	17	-1.083	-1.876	-8.053	1.00	0.00
ATOM 201	C	ASN	A	17	-0.290	-3.075	-7.540	1.00	0.00
ATOM 202	O	ASN	A	17	0.941	-3.084	-7.581	1.00	0.00
ATOM 203	CB	ASN	A	17	-1.116	-1.893	-9.583	1.00	0.00
ATOM 204	CG	ASN	A	17	-1.795	-0.668	-10.160	1.00	0.00
ATOM 205	OD1	ASN	A	17	-1.135	0.249	-10.650	1.00	0.00
ATOM 206	ND2	ASN	A	17	-3.121	-0.645	-10.106	1.00	0.00
ATOM 207	H	ASN	A	17	0.443	-0.576	-7.366	1.00	0.00
ATOM 208	HA	ASN	A	17	-2.093	-1.943	-7.681	1.00	0.00
ATOM 209	1HB	ASN	A	17	-0.105	-1.932	-9.959	1.00	0.00
ATOM 210	2HB	ASN	A	17	-1.653	-2.771	-9.914	1.00	0.00
ATOM 211	1HD2	ASN	A	17	-3.581	-1.411	-9.702	1.00	0.00
ATOM 212	2HD2	ASN	A	17	-3.587	0.135	-10.473	1.00	0.00
ATOM 213	N	PHE	A	18	-1.007	-4.088	-7.063	1.00	0.00
ATOM 214	CA	PHE	A	18	-0.379	-5.299	-6.548	1.00	0.00
ATOM 215	C	PHE	A	18	-1.436	-6.322	-6.141	1.00	0.00
ATOM 216	O	PHE	A	18	-2.195	-6.106	-5.196	1.00	0.00

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ATOM 217	CB	PHE A	18	0.527	-4.972	-5.358	1.00	0.00
ATOM 218	CG	PHE A	18	-0.215	-4.494	-4.142	1.00	0.00
ATOM 219	CD1	PHE A	18	-0.419	-5.338	-3.063	1.00	0.00
ATOM 220	CD2	PHE A	18	-0.708	-3.201	-4.081	1.00	0.00
ATOM 221	CE1	PHE A	18	-1.100	-4.900	-1.942	1.00	0.00
ATOM 222	CE2	PHE A	18	-1.390	-2.757	-2.964	1.00	0.00
ATOM 223	CZ	PHE A	18	-1.587	-3.609	-1.894	1.00	0.00
ATOM 224	H	PHE A	18	-1.984	-4.020	-7.063	1.00	0.00
ATOM 225	HA	PHE A	18	0.222	-5.720	-7.340	1.00	0.00
ATOM 226	1HB	PHE A	18	1.078	-5.859	-5.081	1.00	0.00
ATOM 227	2HB	PHE A	18	1.224	-4.199	-5.648	1.00	0.00
ATOM 228	HD1	PHE A	18	-0.038	-6.349	-3.099	1.00	0.00
ATOM 229	HD2	PHE A	18	-0.555	-2.535	-4.917	1.00	0.00
ATOM 230	HE1	PHE A	18	-1.253	-5.568	-1.107	1.00	0.00
ATOM 231	HE2	PHE A	18	-1.769	-1.747	-2.928	1.00	0.00
ATOM 232	HZ	PHE A	18	-2.120	-3.264	-1.019	1.00	0.00
ATOM 233	N	THR A	19	-1.485	-7.435	-6.868	1.00	0.00
ATOM 234	CA	THR A	19	-2.453	-8.491	-6.591	1.00	0.00
ATOM 235	C	THR A	19	-2.063	-9.286	-5.350	1.00	0.00
ATOM 236	O	THR A	19	-0.892	-9.604	-5.144	1.00	0.00
ATOM 237	CB	THR A	19	-2.570	-9.429	-7.795	1.00	0.00
ATOM 238	OG1	THR A	19	-2.965	-8.712	-8.951	1.00	0.00
ATOM 239	CG2	THR A	19	-3.563	-10.551	-7.589	1.00	0.00
ATOM 240	H	THR A	19	-0.857	-7.545	-7.612	1.00	0.00
ATOM 241	HA	THR A	19	-3.410	-8.024	-6.418	1.00	0.00
ATOM 242	HB	THR A	19	-1.603	-9.873	-7.987	1.00	0.00
ATOM 243	HG1	THR A	19	-2.325	-8.855	-9.652	1.00	0.00

ATOM 244	1HG2	THR	A	19	-4.084	-10.745	-8.515	1.00	0.00
ATOM 245	2HG2	THR	A	19	-4.275	-10.266	-6.828	1.00	0.00
ATOM 246	3HG2	THR	A	19	-3.040	-11.442	-7.276	1.00	0.00
ATOM 247	N	ILE	A	20	-3.057	-9.608	-4.527	1.00	0.00
ATOM 248	CA	ILE	A	20	-2.825	-10.371	-3.306	1.00	0.00
ATOM 249	C	ILE	A	20	-3.205	-11.836	-3.499	1.00	0.00
ATOM 250	O	ILE	A	20	-4.140	-12.153	-4.233	1.00	0.00
ATOM 251	CB	ILE	A	20	-3.627	-9.796	-2.120	1.00	0.00
ATOM 252	CG1	ILE	A	20	-3.410	-8.286	-2.009	1.00	0.00
ATOM 253	CG2	ILE	A	20	-3.231	-10.490	-0.824	1.00	0.00
ATOM 254	CD1	ILE	A	20	-4.533	-7.568	-1.290	1.00	0.00
ATOM 255	H	ILE	A	20	-3.970	-9.328	-4.748	1.00	0.00
ATOM 256	HA	ILE	A	20	-1.774	-10.309	-3.068	1.00	0.00
ATOM 257	HB	ILE	A	20	-4.675	-9.990	-2.296	1.00	0.00
ATOM 258	1HG1	ILE	A	20	-2.497	-8.099	-1.466	1.00	0.00
ATOM 259	2HG1	ILE	A	20	-3.327	-7.865	-3.000	1.00	0.00
ATOM 260	1HG2	ILE	A	20	-2.304	-11.024	-0.969	1.00	0.00
ATOM 261	2HG2	ILE	A	20	-4.007	-11.184	-0.536	1.00	0.00
ATOM 262	3HG2	ILE	A	20	-3.103	-9.753	-0.045	1.00	0.00
ATOM 263	1HD1	ILE	A	20	-4.165	-6.633	-0.893	1.00	0.00
ATOM 264	2HD1	ILE	A	20	-4.894	-8.186	-0.481	1.00	0.00
ATOM 265	3HD1	ILE	A	20	-5.338	-7.374	-1.983	1.00	0.00
ATOM 266	N	THR	A	21	-2.474	-12.726	-2.835	1.00	0.00
ATOM 267	CA	THR	A	21	-2.735	-14.158	-2.934	1.00	0.00
ATOM 268	C	THR	A	21	-3.341	-14.691	-1.641	1.00	0.00
ATOM 269	O	THR	A	21	-3.098	-15.834	-1.253	1.00	0.00
ATOM 270	CB	THR	A	21	-1.443	-14.911	-3.256	1.00	0.00

ATOM 271	OG1	THR	A	21	-0.462	-14.672	-2.262	1.00	0.00
ATOM 272	CG2	THR	A	21	-0.845	-14.528	-4.593	1.00	0.00
ATOM 273	H	THR	A	21	-1.741	-12.413	-2.264	1.00	0.00
ATOM 274	HA	THR	A	21	-3.439	-14.310	-3.738	1.00	0.00
ATOM 275	HB	THR	A	21	-1.653	-15.970	-3.278	1.00	0.00
ATOM 276	HG1	THR	A	21	-0.731	-15.089	-1.440	1.00	0.00
ATOM 277	1HG2	THR	A	21	-0.856	-15.386	-5.249	1.00	0.00
ATOM 278	2HG2	THR	A	21	0.172	-14.196	-4.450	1.00	0.00
ATOM 279	3HG2	THR	A	21	-1.427	-13.732	-5.033	1.00	0.00
ATOM 280	N	ASN	A	22	-4.133	-13.856	-0.978	1.00	0.00
ATOM 281	CA	ASN	A	22	-4.778	-14.240	0.272	1.00	0.00
ATOM 282	C	ASN	A	22	-6.063	-13.447	0.485	1.00	0.00
ATOM 283	O	ASN	A	22	-6.461	-13.184	1.620	1.00	0.00
ATOM 284	CB	ASN	A	22	-3.827	-14.022	1.450	1.00	0.00
ATOM 285	CG	ASN	A	22	-4.029	-15.042	2.553	1.00	0.00
ATOM 286	OD1	ASN	A	22	-4.449	-16.172	2.302	1.00	0.00
ATOM 287	ND2	ASN	A	22	-3.731	-14.648	3.786	1.00	0.00
ATOM 288	H	ASN	A	22	-4.289	-12.959	-1.339	1.00	0.00
ATOM 289	HA	ASN	A	22	-5.024	-15.290	0.209	1.00	0.00
ATOM 290	1HB	ASN	A	22	-2.809	-14.094	1.101	1.00	0.00
ATOM 291	2HB	ASN	A	22	-3.994	-13.036	1.861	1.00	0.00
ATOM 292	1HD2	ASN	A	22	-3.401	-13.733	3.912	1.00	0.00
ATOM 293	2HD2	ASN	A	22	-3.851	-15.287	4.519	1.00	0.00
ATOM 294	N	LEU	A	23	-6.708	-13.070	-0.615	1.00	0.00
ATOM 295	CA	LEU	A	23	-7.948	-12.306	-0.551	1.00	0.00
ATOM 296	C	LEU	A	23	-8.968	-12.844	-1.553	1.00	0.00
ATOM 297	O	LEU	A	23	-8.960	-12.460	-2.723	1.00	0.00

ATOM 298	CB	LEU A	23	-7.673	-10.827	-0.831	1.00	0.00
ATOM 299	CG	LEU A	23	-8.623	-9.850	-0.135	1.00	0.00
ATOM 300	CD1	LEU A	23	-10.029	-9.981	-0.698	1.00	0.00
ATOM 301	CD2	LEU A	23	-8.623	-10.089	1.367	1.00	0.00
ATOM 302	H	LEU A	23	-6.340	-13.310	-1.490	1.00	0.00
ATOM 303	HA	LEU A	23	-8.348	-12.406	0.446	1.00	0.00
ATOM 304	1HB	LEU A	23	-6.665	-10.604	-0.515	1.00	0.00
ATOM 305	2HB	LEU A	23	-7.744	-10.665	-1.897	1.00	0.00
ATOM 306	HG	LEU A	23	-8.283	-8.840	-0.314	1.00	0.00
ATOM 307	1HD1	LEU A	23	-10.695	-9.325	-0.159	1.00	0.00
ATOM 308	2HD1	LEU A	23	-10.365	-11.002	-0.592	1.00	0.00
ATOM 309	3HD1	LEU A	23	-10.025	-9.711	-1.744	1.00	0.00
ATOM 310	1HD2	LEU A	23	-8.877	-9.172	1.877	1.00	0.00
ATOM 311	2HD2	LEU A	23	-7.642	-10.416	1.680	1.00	0.00
ATOM 312	3HD2	LEU A	23	-9.350	-10.851	1.610	1.00	0.00
ATOM 313	N	PRO A	24	-9.864	-13.746	-1.109	1.00	0.00
ATOM 314	CA	PRO A	24	-10.888	-14.332	-1.981	1.00	0.00
ATOM 315	C	PRO A	24	-11.863	-13.288	-2.513	1.00	0.00
ATOM 316	O	PRO A	24	-12.454	-12.527	-1.748	1.00	0.00
ATOM 317	CB	PRO A	24	-11.614	-15.330	-1.072	1.00	0.00
ATOM 318	CG	PRO A	24	-11.320	-14.877	0.316	1.00	0.00
ATOM 319	CD	PRO A	24	-9.950	-14.263	0.267	1.00	0.00
ATOM 320	HA	PRO A	24	-10.442	-14.859	-2.812	1.00	0.00
ATOM 321	1HB	PRO A	24	-12.674	-15.304	-1.279	1.00	0.00
ATOM 322	2HB	PRO A	24	-11.233	-16.326	-1.249	1.00	0.00
ATOM 323	1HG	PRO A	24	-12.049	-14.144	0.626	1.00	0.00
ATOM 324	2HG	PRO A	24	-11.327	-15.723	0.988	1.00	0.00

ATOM 325	1HD	PRO A	24	-9.870	-13.462	0.988	1.00	0.00
ATOM 326	2HD	PRO A	24	-9.192	-15.011	0.447	1.00	0.00
ATOM 327	N	TYR A	25	-12.025	-13.258	-3.832	1.00	0.00
ATOM 328	CA	TYR A	25	-12.928	-12.308	-4.472	1.00	0.00
ATOM 329	C	TYR A	25	-14.353	-12.848	-4.503	1.00	0.00
ATOM 330	O	TYR A	25	-14.572	-14.058	-4.437	1.00	0.00
ATOM 331	CB	TYR A	25	-12.455	-12.003	-5.894	1.00	0.00
ATOM 332	CG	TYR A	25	-13.022	-10.722	-6.462	1.00	0.00
ATOM 333	CD1	TYR A	25	-14.300	-10.686	-7.006	1.00	0.00
ATOM 334	CD2	TYR A	25	-12.280	-9.548	-6.453	1.00	0.00
ATOM 335	CE1	TYR A	25	-14.822	-9.518	-7.527	1.00	0.00
ATOM 336	CE2	TYR A	25	-12.796	-8.375	-6.971	1.00	0.00
ATOM 337	CZ	TYR A	25	-14.066	-8.365	-7.506	1.00	0.00
ATOM 338	OH	TYR A	25	-14.584	-7.199	-8.023	1.00	0.00
ATOM 339	H	TYR A	25	-11.525	-13.891	-4.390	1.00	0.00
ATOM 340	HA	TYR A	25	-12.913	-11.396	-3.894	1.00	0.00
ATOM 341	1HB	TYR A	25	-11.378	-11.918	-5.897	1.00	0.00
ATOM 342	2HB	TYR A	25	-12.747	-12.814	-6.544	1.00	0.00
ATOM 343	HD1	TYR A	25	-14.889	-11.591	-7.020	1.00	0.00
ATOM 344	HD2	TYR A	25	-11.285	-9.558	-6.034	1.00	0.00
ATOM 345	HE1	TYR A	25	-15.817	-9.511	-7.945	1.00	0.00
ATOM 346	HE2	TYR A	25	-12.203	-7.472	-6.956	1.00	0.00
ATOM 347	HH	TYR A	25	-14.317	-6.459	-7.473	1.00	0.00
ATOM 348	N	SER A	26	-15.321	-11.942	-4.606	1.00	0.00
ATOM 349	CA	SER A	26	-16.727	-12.327	-4.648	1.00	0.00
ATOM 350	C	SER A	26	-17.584	-11.197	-5.208	1.00	0.00
ATOM 351	O	SER A	26	-17.099	-10.086	-5.425	1.00	0.00



ATOM 352	CB	SER A	26	-17.215	-12.706	-3.248	1.00	0.00
ATOM 353	OG	SER A	26	-16.423	-13.744	-2.695	1.00	0.00
ATOM 354	H	SER A	26	-15.084	-10.993	-4.655	1.00	0.00
ATOM 355	HA	SER A	26	-16.816	-13.186	-5.296	1.00	0.00
ATOM 356	1HB	SER A	26	-17.157	-11.843	-2.602	1.00	0.00
ATOM 357	2HB	SER A	26	-18.240	-13.044	-3.306	1.00	0.00
ATOM 358	HG	SER A	26	-16.558	-14.552	-3.196	1.00	0.00
ATOM 359	N	GLN A	27	-18.860	-11.487	-5.439	1.00	0.00
ATOM 360	CA	GLN A	27	-19.785	-10.494	-5.974	1.00	0.00
ATOM 361	C	GLN A	27	-19.886	-9.288	-5.045	1.00	0.00
ATOM 362	O	GLN A	27	-20.108	-8.164	-5.494	1.00	0.00
ATOM 363	CB	GLN A	27	-21.169	-11.114	-6.176	1.00	0.00
ATOM 364	CG	GLN A	27	-21.791	-11.644	-4.894	1.00	0.00
ATOM 365	CD	GLN A	27	-22.253	-13.083	-5.021	1.00	0.00
ATOM 366	OE1	GLN A	27	-21.451	-14.014	-4.949	1.00	0.00
ATOM 367	NE2	GLN A	27	-23.554	-13.272	-5.212	1.00	0.00
ATOM 368	H	GLN A	27	-19.187	-12.390	-5.246	1.00	0.00
ATOM 369	HA	GLN A	27	-19.404	-10.167	-6.929	1.00	0.00
ATOM 370	1HB	GLN A	27	-21.830	-10.365	-6.588	1.00	0.00
ATOM 371	2HB	GLN A	27	-21.085	-11.931	-6.877	1.00	0.00
ATOM 372	1HG	GLN A	27	-21.058	-11.587	-4.104	1.00	0.00
ATOM 373	2HG	GLN A	27	-22.641	-11.029	-4.640	1.00	0.00
ATOM 374	1HE2	GLN A	27	-24.134	-12.483	-5.259	1.00	0.00
ATOM 375	2HE2	GLN A	27	-23.881	-14.193	-5.297	1.00	0.00
ATOM 376	N	ASP A	28	-19.721	-9.530	-3.749	1.00	0.00
ATOM 377	CA	ASP A	28	-19.794	-8.464	-2.757	1.00	0.00
ATOM 378	C	ASP A	28	-18.724	-7.408	-3.016	1.00	0.00

ATOM 379	O	ASP	A	28	-18.991	-6.208	-2.943	1.00	0.00
ATOM 380	CB	ASP	A	28	-19.632	-9.036	-1.349	1.00	0.00
ATOM 381	CG	ASP	A	28	-20.683	-10.080	-1.024	1.00	0.00
ATOM 382	OD1	ASP	A	28	-21.818	-9.957	-1.532	1.00	0.00
ATOM 383	OD2	ASP	A	28	-20.370	-11.020	-0.264	1.00	0.00
ATOM 384	H	ASP	A	28	-19.547	-10.448	-3.452	1.00	0.00
ATOM 385	HA	ASP	A	28	-20.766	-8.002	-2.839	1.00	0.00
ATOM 386	1HB	ASP	A	28	-18.658	-9.493	-1.262	1.00	0.00
ATOM 387	2HB	ASP	A	28	-19.713	-8.233	-0.630	1.00	0.00
ATOM 388	N	ILE	A	29	-17.514	-7.863	-3.323	1.00	0.00
ATOM 389	CA	ILE	A	29	-16.405	-6.957	-3.595	1.00	0.00
ATOM 390	C	ILE	A	29	-16.660	-6.123	-4.850	1.00	0.00
ATOM 391	O	ILE	A	29	-15.989	-5.118	-5.082	1.00	0.00
ATOM 392	CB	ILE	A	29	-15.079	-7.726	-3.763	1.00	0.00
ATOM 393	CG1	ILE	A	29	-14.859	-8.673	-2.581	1.00	0.00
ATOM 394	CG2	ILE	A	29	-13.914	-6.755	-3.894	1.00	0.00
ATOM 395	CD1	ILE	A	29	-14.874	-7.977	-1.237	1.00	0.00
ATOM 396	H	ILE	A	29	-17.364	-8.830	-3.368	1.00	0.00
ATOM 397	HA	ILE	A	29	-16.304	-6.292	-2.749	1.00	0.00
ATOM 398	HB	ILE	A	29	-15.138	-8.304	-4.672	1.00	0.00
ATOM 399	1HG1	ILE	A	29	-15.640	-9.419	-2.576	1.00	0.00
ATOM 400	2HG1	ILE	A	29	-13.902	-9.160	-2.693	1.00	0.00
ATOM 401	1HG2	ILE	A	29	-14.175	-5.815	-3.431	1.00	0.00
ATOM 402	2HG2	ILE	A	29	-13.697	-6.593	-4.939	1.00	0.00
ATOM 403	3HG2	ILE	A	29	-13.044	-7.169	-3.406	1.00	0.00
ATOM 404	1HD1	ILE	A	29	-15.839	-8.116	-0.770	1.00	0.00
ATOM 405	2HD1	ILE	A	29	-14.691	-6.922	-1.376	1.00	0.00

ATOM 406	3HD1	ILE	A	29	-14.105	-8.396	-0.606	1.00	0.00
ATOM 407	N	ALA	A	30	-17.634	-6.542	-5.655	1.00	0.00
ATOM 408	CA	ALA	A	30	-17.969	-5.826	-6.880	1.00	0.00
ATOM 409	C	ALA	A	30	-19.131	-4.860	-6.657	1.00	0.00
ATOM 410	O	ALA	A	30	-19.798	-4.449	-7.608	1.00	0.00
ATOM 411	CB	ALA	A	30	-18.304	-6.809	-7.991	1.00	0.00
ATOM 412	H	ALA	A	30	-18.137	-7.349	-5.422	1.00	0.00
ATOM 413	HA	ALA	A	30	-17.100	-5.261	-7.184	1.00	0.00
ATOM 414	1HB	ALA	A	30	-18.736	-7.703	-7.561	1.00	0.00
ATOM 415	2HB	ALA	A	30	-17.405	-7.066	-8.528	1.00	0.00
ATOM 416	3HB	ALA	A	30	-19.014	-6.358	-8.669	1.00	0.00
ATOM 417	N	GLN	A	31	-19.370	-4.500	-5.398	1.00	0.00
ATOM 418	CA	GLN	A	31	-20.451	-3.582	-5.055	1.00	0.00
ATOM 419	C	GLN	A	31	-20.246	-3.004	-3.654	1.00	0.00
ATOM 420	O	GLN	A	31	-20.269	-3.736	-2.665	1.00	0.00
ATOM 421	CB	GLN	A	31	-21.799	-4.300	-5.129	1.00	0.00
ATOM 422	CG	GLN	A	31	-22.502	-4.138	-6.467	1.00	0.00
ATOM 423	CD	GLN	A	31	-23.773	-3.317	-6.364	1.00	0.00
ATOM 424	OE1	GLN	A	31	-23.766	-2.109	-6.602	1.00	0.00
ATOM 425	NE2	GLN	A	31	-24.873	-3.970	-6.009	1.00	0.00
ATOM 426	H	GLN	A	31	-18.805	-4.859	-4.683	1.00	0.00
ATOM 427	HA	GLN	A	31	-20.442	-2.778	-5.774	1.00	0.00
ATOM 428	1HB	GLN	A	31	-21.643	-5.354	-4.953	1.00	0.00
ATOM 429	2HB	GLN	A	31	-22.445	-3.909	-4.357	1.00	0.00
ATOM 430	1HG	GLN	A	31	-21.830	-3.647	-7.154	1.00	0.00
ATOM 431	2HG	GLN	A	31	-22.752	-5.118	-6.848	1.00	0.00
ATOM 432	1HE2	GLN	A	31	-24.804	-4.932	-5.834	1.00	0.00

ATOM 433	2HE2	GLN	A	31	-25.709	-3.463	-5.936	1.00	0.00
ATOM 434	N	PRO	A	32	-20.041	-1.677	-3.546	1.00	0.00
ATOM 435	CA	PRO	A	32	-19.833	-1.015	-2.252	1.00	0.00
ATOM 436	C	PRO	A	32	-21.010	-1.209	-1.301	1.00	0.00
ATOM 437	O	PRO	A	32	-20.877	-1.023	-0.091	1.00	0.00
ATOM 438	CB	PRO	A	32	-19.679	0.467	-2.617	1.00	0.00
ATOM 439	CG	PRO	A	32	-19.318	0.476	-4.063	1.00	0.00
ATOM 440	CD	PRO	A	32	-19.996	-0.721	-4.666	1.00	0.00
ATOM 441	HA	PRO	A	32	-18.930	-1.365	-1.776	1.00	0.00
ATOM 442	1HB	PRO	A	32	-20.612	0.981	-2.440	1.00	0.00
ATOM 443	2HB	PRO	A	32	-18.898	0.908	-2.015	1.00	0.00
ATOM 444	1HG	PRO	A	32	-19.678	1.384	-4.525	1.00	0.00
ATOM 445	2HG	PRO	A	32	-18.247	0.396	-4.175	1.00	0.00
ATOM 446	1HD	PRO	A	32	-20.992	-0.464	-4.997	1.00	0.00
ATOM 447	2HD	PRO	A	32	-19.412	-1.113	-5.485	1.00	0.00
ATOM 448	N	SER	A	33	-22.162	-1.583	-1.852	1.00	0.00
ATOM 449	CA	SER	A	33	-23.358	-1.799	-1.047	1.00	0.00
ATOM 450	C	SER	A	33	-23.147	-2.928	-0.042	1.00	0.00
ATOM 451	O	SER	A	33	-23.713	-2.912	1.051	1.00	0.00
ATOM 452	CB	SER	A	33	-24.552	-2.119	-1.948	1.00	0.00
ATOM 453	OG	SER	A	33	-25.733	-2.298	-1.186	1.00	0.00
ATOM 454	H	SER	A	33	-22.208	-1.715	-2.821	1.00	0.00
ATOM 455	HA	SER	A	33	-23.562	-0.887	-0.506	1.00	0.00
ATOM 456	1HB	SER	A	33	-24.705	-1.306	-2.641	1.00	0.00
ATOM 457	2HB	SER	A	33	-24.352	-3.027	-2.496	1.00	0.00
ATOM 458	HG	SER	A	33	-26.387	-2.763	-1.712	1.00	0.00
ATOM 459	N	THR	A	34	-22.332	-3.908	-0.419	1.00	0.00

ATOM 460	CA	THR A	34	-22.051	-5.046	0.451	1.00	0.00
ATOM 461	C	THR A	34	-21.049	-4.671	1.538	1.00	0.00
ATOM 462	O	THR A	34	-20.395	-3.631	1.462	1.00	0.00
ATOM 463	CB	THR A	34	-21.517	-6.222	-0.366	1.00	0.00
ATOM 464	OG1	THR A	34	-20.184	-5.981	-0.780	1.00	0.00
ATOM 465	CG2	THR A	34	-22.337	-6.512	-1.605	1.00	0.00
ATOM 466	H	THR A	34	-21.911	-3.867	-1.303	1.00	0.00
ATOM 467	HA	THR A	34	-22.979	-5.338	0.921	1.00	0.00
ATOM 468	HB	THR A	34	-21.525	-7.109	0.251	1.00	0.00
ATOM 469	HG1	THR A	34	-19.577	-6.307	-0.112	1.00	0.00
ATOM 470	1HG2	THR A	34	-21.875	-6.042	-2.460	1.00	0.00
ATOM 471	2HG2	THR A	34	-23.335	-6.121	-1.475	1.00	0.00
ATOM 472	3HG2	THR A	34	-22.386	-7.579	-1.763	1.00	0.00
ATOM 473	N	THR A	35	-20.935	-5.525	2.550	1.00	0.00
ATOM 474	CA	THR A	35	-20.015	-5.286	3.656	1.00	0.00
ATOM 475	C	THR A	35	-18.601	-5.739	3.302	1.00	0.00
ATOM 476	O	THR A	35	-17.621	-5.101	3.685	1.00	0.00
ATOM 477	CB	THR A	35	-20.495	-6.014	4.912	1.00	0.00
ATOM 478	OG1	THR A	35	-21.883	-5.810	5.111	1.00	0.00
ATOM 479	CG2	THR A	35	-19.781	-5.570	6.171	1.00	0.00
ATOM 480	H	THR A	35	-21.485	-6.337	2.554	1.00	0.00
ATOM 481	HA	THR A	35	-20.000	-4.224	3.850	1.00	0.00
ATOM 482	HB	THR A	35	-20.322	-7.073	4.791	1.00	0.00
ATOM 483	HG1	THR A	35	-22.046	-4.882	5.294	1.00	0.00
ATOM 484	1HG2	THR A	35	-18.795	-5.209	5.917	1.00	0.00
ATOM 485	2HG2	THR A	35	-19.696	-6.405	6.850	1.00	0.00
ATOM 486	3HG2	THR A	35	-20.344	-4.778	6.643	1.00	0.00

ATOM 487	N	LYS A	36	-18.502	-6.844	2.569	1.00	0.00
ATOM 488	CA	LYS A	36	-17.207	-7.383	2.163	1.00	0.00
ATOM 489	C	LYS A	36	-16.374	-6.326	1.443	1.00	0.00
ATOM 490	O	LYS A	36	-15.143	-6.360	1.481	1.00	0.00
ATOM 491	CB	LYS A	36	-17.398	-8.603	1.260	1.00	0.00
ATOM 492	CG	LYS A	36	-16.202	-9.540	1.241	1.00	0.00
ATOM 493	CD	LYS A	36	-16.033	-10.256	2.573	1.00	0.00
ATOM 494	CE	LYS A	36	-14.785	-11.123	2.584	1.00	0.00
ATOM 495	NZ	LYS A	36	-14.972	-12.375	1.799	1.00	0.00
ATOM 496	H	LYS A	36	-19.320	-7.310	2.294	1.00	0.00
ATOM 497	HA	LYS A	36	-16.682	-7.688	3.056	1.00	0.00
ATOM 498	1HB	LYS A	36	-18.259	-9.157	1.601	1.00	0.00
ATOM 499	2HB	LYS A	36	-17.577	-8.262	0.250	1.00	0.00
ATOM 500	1HG	LYS A	36	-16.346	-10.276	0.465	1.00	0.00
ATOM 501	2HG	LYS A	36	-15.310	-8.967	1.035	1.00	0.00
ATOM 502	1HD	LYS A	36	-15.954	-9.520	3.358	1.00	0.00
ATOM 503	2HD	LYS A	36	-16.898	-10.880	2.746	1.00	0.00
ATOM 504	1HE	LYS A	36	-13.968	-10.561	2.158	1.00	0.00
ATOM 505	2HE	LYS A	36	-14.552	-11.381	3.606	1.00	0.00
ATOM 506	1HZ	LYS A	36	-14.422	-13.149	2.223	1.00	0.00
ATOM 507	2HZ	LYS A	36	-14.653	-12.234	0.819	1.00	0.00
ATOM 508	3HZ	LYS A	36	-15.978	-12.644	1.787	1.00	0.00
ATOM 509	N	TYR A	37	-17.052	-5.389	0.790	1.00	0.00
ATOM 510	CA	TYR A	37	-16.375	-4.322	0.063	1.00	0.00
ATOM 511	C	TYR A	37	-15.646	-3.387	1.023	1.00	0.00
ATOM 512	O	TYR A	37	-14.429	-3.223	0.943	1.00	0.00
ATOM 513	CB	TYR A	37	-17.383	-3.528	-0.770	1.00	0.00

ATOM 514	CG	TYR A	37	-16.747	-2.519	-1.697	1.00	0.00
ATOM 515	CD1	TYR A	37	-16.372	-2.873	-2.987	1.00	0.00
ATOM 516	CD2	TYR A	37	-16.525	-1.211	-1.284	1.00	0.00
ATOM 517	CE1	TYR A	37	-15.792	-1.951	-3.839	1.00	0.00
ATOM 518	CE2	TYR A	37	-15.946	-0.284	-2.131	1.00	0.00
ATOM 519	CZ	TYR A	37	-15.581	-0.659	-3.406	1.00	0.00
ATOM 520	OH	TYR A	37	-15.006	0.261	-4.252	1.00	0.00
ATOM 521	H	TYR A	37	-18.032	-5.415	0.797	1.00	0.00
ATOM 522	HA	TYR A	37	-15.652	-4.776	-0.598	1.00	0.00
ATOM 523	1HB	TYR A	37	-17.959	-4.215	-1.373	1.00	0.00
ATOM 524	2HB	TYR A	37	-18.049	-2.997	-0.106	1.00	0.00
ATOM 525	HD1	TYR A	37	-16.538	-3.884	-3.323	1.00	0.00
ATOM 526	HD2	TYR A	37	-16.810	-0.921	-0.284	1.00	0.00
ATOM 527	HE1	TYR A	37	-15.508	-2.245	-4.839	1.00	0.00
ATOM 528	HE2	TYR A	37	-15.783	0.727	-1.791	1.00	0.00
ATOM 529	HH	TYR A	37	-14.092	0.403	-3.996	1.00	0.00
ATOM 530	N	GLN A	38	-16.401	-2.777	1.933	1.00	0.00
ATOM 531	CA	GLN A	38	-15.828	-1.859	2.910	1.00	0.00
ATOM 532	C	GLN A	38	-14.842	-2.580	3.822	1.00	0.00
ATOM 533	O	GLN A	38	-13.825	-2.013	4.225	1.00	0.00
ATOM 534	CB	GLN A	38	-16.937	-1.215	3.744	1.00	0.00
ATOM 535	CG	GLN A	38	-18.087	-0.673	2.911	1.00	0.00
ATOM 536	CD	GLN A	38	-19.435	-1.203	3.360	1.00	0.00
ATOM 537	OE1	GLN A	38	-19.595	-1.638	4.501	1.00	0.00
ATOM 538	NE2	GLN A	38	-20.413	-1.169	2.463	1.00	0.00
ATOM 539	H	GLN A	38	-17.365	-2.950	1.946	1.00	0.00
ATOM 540	HA	GLN A	38	-15.302	-1.086	2.369	1.00	0.00

ATOM 541	1HB	GLN A	38	-17.331	-1.951	4.428	1.00	0.00
ATOM 542	2HB	GLN A	38	-16.516	-0.398	4.311	1.00	0.00
ATOM 543	1HG	GLN A	38	-18.097	0.404	2.992	1.00	0.00
ATOM 544	2HG	GLN A	38	-17.932	-0.954	1.880	1.00	0.00
ATOM 545	1HE2	GLN A	38	-20.213	-0.809	1.574	1.00	0.00
ATOM 546	2HE2	GLN A	38	-21.295	-1.506	2.726	1.00	0.00
ATOM 547	N	GLN A	39	-15.147	-3.833	4.145	1.00	0.00
ATOM 548	CA	GLN A	39	-14.287	-4.631	5.010	1.00	0.00
ATOM 549	C	GLN A	39	-12.897	-4.786	4.399	1.00	0.00
ATOM 550	O	GLN A	39	-11.889	-4.502	5.046	1.00	0.00
ATOM 551	CB	GLN A	39	-14.907	-6.007	5.253	1.00	0.00
ATOM 552	CG	GLN A	39	-15.810	-6.060	6.475	1.00	0.00
ATOM 553	CD	GLN A	39	-15.677	-7.361	7.242	1.00	0.00
ATOM 554	OE1	GLN A	39	-15.482	-7.360	8.458	1.00	0.00
ATOM 555	NE2	GLN A	39	-15.780	-8.479	6.534	1.00	0.00
ATOM 556	H	GLN A	39	-15.972	-4.229	3.793	1.00	0.00
ATOM 557	HA	GLN A	39	-14.196	-4.114	5.954	1.00	0.00
ATOM 558	1HB	GLN A	39	-15.492	-6.284	4.388	1.00	0.00
ATOM 559	2HB	GLN A	39	-14.115	-6.728	5.386	1.00	0.00
ATOM 560	1HG	GLN A	39	-15.551	-5.244	7.133	1.00	0.00
ATOM 561	2HG	GLN A	39	-16.836	-5.951	6.154	1.00	0.00
ATOM 562	1HE2	GLN A	39	-15.935	-8.403	5.569	1.00	0.00
ATOM 563	2HE2	GLN A	39	-15.698	-9.335	7.004	1.00	0.00
ATOM 564	N	THR A	40	-12.853	-5.235	3.150	1.00	0.00
ATOM 565	CA	THR A	40	-11.588	-5.427	2.451	1.00	0.00
ATOM 566	C	THR A	40	-10.971	-4.086	2.069	1.00	0.00
ATOM 567	O	THR A	40	-9.754	-3.907	2.142	1.00	0.00



ATOM 568	CB	THR A	40	-11.798	-6.279	1.198	1.00	0.00
ATOM 569	OG1	THR A	40	-12.396	-7.520	1.530	1.00	0.00
ATOM 570	CG2	THR A	40	-10.514	-6.574	0.453	1.00	0.00
ATOM 571	H	THR A	40	-13.691	-5.444	2.687	1.00	0.00
ATOM 572	HA	THR A	40	-10.915	-5.944	3.118	1.00	0.00
ATOM 573	HB	THR A	40	-12.459	-5.753	0.524	1.00	0.00
ATOM 574	HG1	THR A	40	-13.187	-7.364	2.052	1.00	0.00
ATOM 575	1HG2	THR A	40	-9.786	-6.982	1.137	1.00	0.00
ATOM 576	2HG2	THR A	40	-10.130	-5.662	0.021	1.00	0.00
ATOM 577	3HG2	THR A	40	-10.710	-7.290	-0.332	1.00	0.00
ATOM 578	N	LYS A	41	-11.817	-3.146	1.662	1.00	0.00
ATOM 579	CA	LYS A	41	-11.356	-1.820	1.269	1.00	0.00
ATOM 580	C	LYS A	41	-10.763	-1.074	2.460	1.00	0.00
ATOM 581	O	LYS A	41	-9.831	-0.284	2.311	1.00	0.00
ATOM 582	CB	LYS A	41	-12.510	-1.013	0.672	1.00	0.00
ATOM 583	CG	LYS A	41	-12.067	0.268	-0.014	1.00	0.00
ATOM 584	CD	LYS A	41	-13.258	1.118	-0.431	1.00	0.00
ATOM 585	CE	LYS A	41	-12.851	2.559	-0.690	1.00	0.00
ATOM 586	NZ	LYS A	41	-13.878	3.521	-0.202	1.00	0.00
ATOM 587	H	LYS A	41	-12.775	-3.349	1.626	1.00	0.00
ATOM 588	HA	LYS A	41	-10.589	-1.944	0.519	1.00	0.00
ATOM 589	1HB	LYS A	41	-13.024	-1.626	-0.055	1.00	0.00
ATOM 590	2HB	LYS A	41	-13.200	-0.754	1.462	1.00	0.00
ATOM 591	1HG	LYS A	41	-11.455	0.838	0.669	1.00	0.00
ATOM 592	2HG	LYS A	41	-11.492	0.016	-0.892	1.00	0.00
ATOM 593	1HD	LYS A	41	-13.682	0.705	-1.334	1.00	0.00
ATOM 594	2HD	LYS A	41	-13.996	1.096	0.358	1.00	0.00

ATOM 595	1HE	LYS	A	41	-11.919	2.754	-0.183	1.00	0.00
ATOM 596	2HE	LYS	A	41	-12.718	2.696	-1.754	1.00	0.00
ATOM 597	1HZ	LYS	A	41	-13.941	4.335	-0.848	1.00	0.00
ATOM 598	2HZ	LYS	A	41	-13.623	3.865	0.745	1.00	0.00
ATOM 599	3HZ	LYS	A	41	-14.808	3.058	-0.153	1.00	0.00
ATOM 600	N	ARG	A	42	-11.310	-1.331	3.644	1.00	0.00
ATOM 601	CA	ARG	A	42	-10.836	-0.686	4.863	1.00	0.00
ATOM 602	C	ARG	A	42	-9.605	-1.398	5.412	1.00	0.00
ATOM 603	O	ARG	A	42	-8.726	-0.771	6.004	1.00	0.00
ATOM 604	CB	ARG	A	42	-11.942	-0.665	5.918	1.00	0.00
ATOM 605	CG	ARG	A	42	-11.612	0.192	7.129	1.00	0.00
ATOM 606	CD	ARG	A	42	-12.373	1.510	7.105	1.00	0.00
ATOM 607	NE	ARG	A	42	-13.673	1.403	7.761	1.00	0.00
ATOM 608	CZ	ARG	A	42	-14.384	2.449	8.175	1.00	0.00
ATOM 609	NH1	ARG	A	42	-13.922	3.683	8.003	1.00	0.00
ATOM 610	NH2	ARG	A	42	-15.557	2.265	8.762	1.00	0.00
ATOM 611	H	ARG	A	42	-12.051	-1.972	3.700	1.00	0.00
ATOM 612	HA	ARG	A	42	-10.568	0.331	4.615	1.00	0.00
ATOM 613	1HB	ARG	A	42	-12.847	-0.284	5.469	1.00	0.00
ATOM 614	2HB	ARG	A	42	-12.119	-1.676	6.258	1.00	0.00
ATOM 615	1HG	ARG	A	42	-11.879	-0.348	8.025	1.00	0.00
ATOM 616	2HG	ARG	A	42	-10.552	0.399	7.133	1.00	0.00
ATOM 617	1HD	ARG	A	42	-11.785	2.259	7.614	1.00	0.00
ATOM 618	2HD	ARG	A	42	-12.521	1.806	6.077	1.00	0.00
ATOM 619	HE	ARG	A	42	-14.037	0.504	7.902	1.00	0.00
ATOM 620	1HH1	ARG	A	42	-13.038	3.830	7.561	1.00	0.00
ATOM 621	2HH1	ARG	A	42	-14.461	4.466	8.316	1.00	0.00

ATOM 622	1HH2	ARG	A	42	-15.910	1.338	8.894	1.00	0.00
ATOM 623	2HH2	ARG	A	42	-16.091	3.051	9.073	1.00	0.00
ATOM 624	N	SER	A	43	-9.549	-2.710	5.212	1.00	0.00
ATOM 625	CA	SER	A	43	-8.424	-3.508	5.688	1.00	0.00
ATOM 626	C	SER	A	43	-7.120	-3.048	5.044	1.00	0.00
ATOM 627	O	SER	A	43	-6.166	-2.695	5.736	1.00	0.00
ATOM 628	CB	SER	A	43	-8.660	-4.990	5.389	1.00	0.00
ATOM 629	OG	SER	A	43	-7.685	-5.799	6.024	1.00	0.00
ATOM 630	H	SER	A	43	-10.280	-3.154	4.733	1.00	0.00
ATOM 631	HA	SER	A	43	-8.351	-3.373	6.757	1.00	0.00
ATOM 632	1HB	SER	A	43	-9.635	-5.277	5.749	1.00	0.00
ATOM 633	2HB	SER	A	43	-8.606	-5.153	4.323	1.00	0.00
ATOM 634	HG	SER	A	43	-7.406	-6.496	5.425	1.00	0.00
ATOM 635	N	ILE	A	44	-7.087	-3.052	3.715	1.00	0.00
ATOM 636	CA	ILE	A	44	-5.901	-2.633	2.980	1.00	0.00
ATOM 637	C	ILE	A	44	-5.574	-1.170	3.262	1.00	0.00
ATOM 638	O	ILE	A	44	-4.413	-0.808	3.449	1.00	0.00
ATOM 639	CB	ILE	A	44	-6.080	-2.829	1.461	1.00	0.00
ATOM 640	CG1	ILE	A	44	-6.509	-4.266	1.157	1.00	0.00
ATOM 641	CG2	ILE	A	44	-4.790	-2.488	0.725	1.00	0.00
ATOM 642	CD1	ILE	A	44	-6.721	-4.534	-0.317	1.00	0.00
ATOM 643	H	ILE	A	44	-7.881	-3.342	3.219	1.00	0.00
ATOM 644	HA	ILE	A	44	-5.074	-3.246	3.306	1.00	0.00
ATOM 645	HB	ILE	A	44	-6.848	-2.152	1.121	1.00	0.00
ATOM 646	1HG1	ILE	A	44	-5.747	-4.945	1.510	1.00	0.00
ATOM 647	2HG1	ILE	A	44	-7.435	-4.475	1.669	1.00	0.00
ATOM 648	1HG2	ILE	A	44	-4.637	-3.192	-0.079	1.00	0.00

ATOM 649	2HG2	ILE	A	44	-3.959	-2.542	1.413	1.00	0.00
ATOM 650	3HG2	ILE	A	44	-4.859	-1.490	0.322	1.00	0.00
ATOM 651	1HD1	ILE	A	44	-5.820	-4.954	-0.740	1.00	0.00
ATOM 652	2HD1	ILE	A	44	-6.958	-3.609	-0.821	1.00	0.00
ATOM 653	3HD1	ILE	A	44	-7.536	-5.231	-0.442	1.00	0.00
ATOM 654	N	GLU	A	45	-6.608	-0.335	3.297	1.00	0.00
ATOM 655	CA	GLU	A	45	-6.432	1.089	3.560	1.00	0.00
ATOM 656	C	GLU	A	45	-5.776	1.308	4.921	1.00	0.00
ATOM 657	O	GLU	A	45	-5.044	2.276	5.121	1.00	0.00
ATOM 658	CB	GLU	A	45	-7.782	1.808	3.506	1.00	0.00
ATOM 659	CG	GLU	A	45	-7.993	2.610	2.232	1.00	0.00
ATOM 660	CD	GLU	A	45	-8.995	3.734	2.410	1.00	0.00
ATOM 661	OE1	GLU	A	45	-8.568	4.866	2.717	1.00	0.00
ATOM 662	OE2	GLU	A	45	-10.207	3.481	2.241	1.00	0.00
ATOM 663	H	GLU	A	45	-7.510	-0.683	3.143	1.00	0.00
ATOM 664	HA	GLU	A	45	-5.786	1.491	2.794	1.00	0.00
ATOM 665	1HB	GLU	A	45	-8.570	1.074	3.578	1.00	0.00
ATOM 666	2HB	GLU	A	45	-7.853	2.483	4.346	1.00	0.00
ATOM 667	1HG	GLU	A	45	-7.048	3.035	1.929	1.00	0.00
ATOM 668	2HG	GLU	A	45	-8.352	1.945	1.460	1.00	0.00
ATOM 669	N	ASN	A	46	-6.044	0.398	5.852	1.00	0.00
ATOM 670	CA	ASN	A	46	-5.481	0.486	7.194	1.00	0.00
ATOM 671	C	ASN	A	46	-4.020	0.045	7.198	1.00	0.00
ATOM 672	O	ASN	A	46	-3.177	0.661	7.851	1.00	0.00
ATOM 673	CB	ASN	A	46	-6.291	-0.376	8.166	1.00	0.00
ATOM 674	CG	ASN	A	46	-6.688	0.380	9.418	1.00	0.00
ATOM 675	OD1	ASN	A	46	-5.968	1.268	9.875	1.00	0.00

ATOM 676	ND2	ASN	A	46	-7.839	0.031	9.982	1.00	0.00
ATOM 677	H	ASN	A	46	-6.635	-0.353	5.631	1.00	0.00
ATOM 678	HA	ASN	A	46	-5.535	1.517	7.510	1.00	0.00
ATOM 679	1HB	ASN	A	46	-7.192	-0.712	7.673	1.00	0.00
ATOM 680	2HB	ASN	A	46	-5.703	-1.234	8.456	1.00	0.00
ATOM 681	1HD2	ASN	A	46	-8.359	-0.686	9.562	1.00	0.00
ATOM 682	2HD2	ASN	A	46	-8.120	0.503	10.792	1.00	0.00
ATOM 683	N	ALA	A	47	-3.729	-1.024	6.465	1.00	0.00
ATOM 684	CA	ALA	A	47	-2.371	-1.548	6.382	1.00	0.00
ATOM 685	C	ALA	A	47	-1.445	-0.559	5.683	1.00	0.00
ATOM 686	O	ALA	A	47	-0.326	-0.314	6.135	1.00	0.00
ATOM 687	CB	ALA	A	47	-2.364	-2.885	5.656	1.00	0.00
ATOM 688	H	ALA	A	47	-4.444	-1.472	5.966	1.00	0.00
ATOM 689	HA	ALA	A	47	-2.014	-1.710	7.389	1.00	0.00
ATOM 690	1HB	ALA	A	47	-2.627	-3.671	6.347	1.00	0.00
ATOM 691	2HB	ALA	A	47	-1.378	-3.071	5.255	1.00	0.00
ATOM 692	3HB	ALA	A	47	-3.082	-2.860	4.849	1.00	0.00
ATOM 693	N	LEU	A	48	-1.919	0.007	4.577	1.00	0.00
ATOM 694	CA	LEU	A	48	-1.132	0.969	3.814	1.00	0.00
ATOM 695	C	LEU	A	48	-0.819	2.203	4.656	1.00	0.00
ATOM 696	O	LEU	A	48	0.286	2.743	4.595	1.00	0.00
ATOM 697	CB	LEU	A	48	-1.882	1.380	2.545	1.00	0.00
ATOM 698	CG	LEU	A	48	-1.633	0.487	1.329	1.00	0.00
ATOM 699	CD1	LEU	A	48	-2.586	0.844	0.199	1.00	0.00
ATOM 700	CD2	LEU	A	48	-0.189	0.605	0.868	1.00	0.00
ATOM 701	H	LEU	A	48	-2.818	-0.229	4.267	1.00	0.00
ATOM 702	HA	LEU	A	48	-0.205	0.493	3.536	1.00	0.00

ATOM 703	1HB	LEU	A	48	-2.941	1.375	2.760	1.00	0.00
ATOM 704	2HB	LEU	A	48	-1.589	2.387	2.289	1.00	0.00
ATOM 705	HG	LEU	A	48	-1.814	-0.543	1.604	1.00	0.00
ATOM 706	1HD1	LEU	A	48	-2.222	1.723	-0.314	1.00	0.00
ATOM 707	2HD1	LEU	A	48	-3.567	1.044	0.605	1.00	0.00
ATOM 708	3HD1	LEU	A	48	-2.644	0.020	-0.497	1.00	0.00
ATOM 709	1HD2	LEU	A	48	0.424	0.945	1.690	1.00	0.00
ATOM 710	2HD2	LEU	A	48	-0.127	1.314	0.056	1.00	0.00
ATOM 711	3HD2	LEU	A	48	0.163	-0.359	0.532	1.00	0.00
ATOM 712	N	ASN	A	49	-1.796	2.641	5.442	1.00	0.00
ATOM 713	CA	ASN	A	49	-1.624	3.810	6.297	1.00	0.00
ATOM 714	C	ASN	A	49	-0.539	3.564	7.341	1.00	0.00
ATOM 715	O	ASN	A	49	0.178	4.485	7.734	1.00	0.00
ATOM 716	CB	ASN	A	49	-2.943	4.160	6.988	1.00	0.00
ATOM 717	CG	ASN	A	49	-3.159	5.656	7.099	1.00	0.00
ATOM 718	OD1	ASN	A	49	-2.242	6.404	7.441	1.00	0.00
ATOM 719	ND2	ASN	A	49	-4.375	6.101	6.809	1.00	0.00
ATOM 720	H	ASN	A	49	-2.654	2.167	5.447	1.00	0.00
ATOM 721	HA	ASN	A	49	-1.325	4.637	5.671	1.00	0.00
ATOM 722	1HB	ASN	A	49	-3.761	3.739	6.425	1.00	0.00
ATOM 723	2HB	ASN	A	49	-2.943	3.740	7.984	1.00	0.00
ATOM 724	1HD2	ASN	A	49	-5.057	5.448	6.544	1.00	0.00
ATOM 725	2HD2	ASN	A	49	-4.543	7.065	6.871	1.00	0.00
ATOM 726	N	GLN	A	50	-0.423	2.316	7.783	1.00	0.00
ATOM 727	CA	GLN	A	50	0.574	1.946	8.778	1.00	0.00
ATOM 728	C	GLN	A	50	1.941	1.742	8.125	1.00	0.00
ATOM 729	O	GLN	A	50	2.976	1.855	8.783	1.00	0.00

ATOM 730	CB	GLN A	50	0.123	0.677	9.517	1.00	0.00
ATOM 731	CG	GLN A	50	1.262	-0.230	9.958	1.00	0.00
ATOM 732	CD	GLN A	50	0.805	-1.322	10.906	1.00	0.00
ATOM 733	OE1	GLN A	50	0.823	-2.504	10.563	1.00	0.00
ATOM 734	NE2	GLN A	50	0.391	-0.931	12.105	1.00	0.00
ATOM 735	H	GLN A	50	-1.020	1.625	7.430	1.00	0.00
ATOM 736	HA	GLN A	50	0.646	2.757	9.488	1.00	0.00
ATOM 737	1HB	GLN A	50	-0.434	0.967	10.394	1.00	0.00
ATOM 738	2HB	GLN A	50	-0.525	0.110	8.864	1.00	0.00
ATOM 739	1HG	GLN A	50	1.693	-0.689	9.083	1.00	0.00
ATOM 740	2HG	GLN A	50	2.011	0.370	10.456	1.00	0.00
ATOM 741	1HE2	GLN A	50	0.403	0.028	12.309	1.00	0.00
ATOM 742	2HE2	GLN A	50	0.090	-1.616	12.737	1.00	0.00
ATOM 743	N	LEU A	51	1.939	1.441	6.829	1.00	0.00
ATOM 744	CA	LEU A	51	3.179	1.224	6.094	1.00	0.00
ATOM 745	C	LEU A	51	3.848	2.551	5.750	1.00	0.00
ATOM 746	O	LEU A	51	5.073	2.663	5.767	1.00	0.00
ATOM 747	CB	LEU A	51	2.907	0.430	4.815	1.00	0.00
ATOM 748	CG	LEU A	51	4.145	-0.172	4.150	1.00	0.00
ATOM 749	CD1	LEU A	51	3.786	-1.454	3.415	1.00	0.00
ATOM 750	CD2	LEU A	51	4.779	0.830	3.197	1.00	0.00
ATOM 751	H	LEU A	51	1.085	1.364	6.357	1.00	0.00
ATOM 752	HA	LEU A	51	3.843	0.654	6.727	1.00	0.00
ATOM 753	1HB	LEU A	51	2.225	-0.373	5.054	1.00	0.00
ATOM 754	2HB	LEU A	51	2.429	1.087	4.104	1.00	0.00
ATOM 755	HG	LEU A	51	4.872	-0.417	4.912	1.00	0.00
ATOM 756	1HD1	LEU A	51	2.779	-1.381	3.035	1.00	0.00

ATOM 757	2HD1	LEU	A	51	3.854	-2.290	4.097	1.00	0.00
ATOM 758	3HD1	LEU	A	51	4.472	-1.603	2.595	1.00	0.00
ATOM 759	1HD2	LEU	A	51	5.645	0.384	2.729	1.00	0.00
ATOM 760	2HD2	LEU	A	51	5.082	1.709	3.746	1.00	0.00
ATOM 761	3HD2	LEU	A	51	4.063	1.108	2.438	1.00	0.00
ATOM 762	N	PHE	A	52	3.035	3.555	5.436	1.00	0.00
ATOM 763	CA	PHE	A	52	3.550	4.874	5.086	1.00	0.00
ATOM 764	C	PHE	A	52	4.187	5.550	6.296	1.00	0.00
ATOM 765	O	PHE	A	52	5.317	6.032	6.226	1.00	0.00
ATOM 766	CB	PHE	A	52	2.426	5.751	4.531	1.00	0.00
ATOM 767	CG	PHE	A	52	1.642	5.098	3.428	1.00	0.00
ATOM 768	CD1	PHE	A	52	0.260	5.206	3.384	1.00	0.00
ATOM 769	CD2	PHE	A	52	2.285	4.376	2.435	1.00	0.00
ATOM 770	CE1	PHE	A	52	-0.464	4.608	2.371	1.00	0.00
ATOM 771	CE2	PHE	A	52	1.565	3.775	1.420	1.00	0.00
ATOM 772	CZ	PHE	A	52	0.190	3.892	1.387	1.00	0.00
ATOM 773	H	PHE	A	52	2.067	3.404	5.438	1.00	0.00
ATOM 774	HA	PHE	A	52	4.303	4.744	4.323	1.00	0.00
ATOM 775	1HB	PHE	A	52	1.740	5.991	5.329	1.00	0.00
ATOM 776	2HB	PHE	A	52	2.851	6.664	4.142	1.00	0.00
ATOM 777	HD1	PHE	A	52	-0.251	5.766	4.153	1.00	0.00
ATOM 778	HD2	PHE	A	52	3.361	4.285	2.458	1.00	0.00
ATOM 779	HE1	PHE	A	52	-1.540	4.700	2.349	1.00	0.00
ATOM 780	HE2	PHE	A	52	2.078	3.216	0.651	1.00	0.00
ATOM 781	HZ	PHE	A	52	-0.375	3.423	0.595	1.00	0.00
ATOM 782	N	ARG	A	53	3.454	5.582	7.404	1.00	0.00
ATOM 783	CA	ARG	A	53	3.947	6.199	8.630	1.00	0.00



ATOM 784	C	ARG A	53	5.250	5.549	9.092	1.00	0.00
ATOM 785	O	ARG A	53	6.038	6.162	9.811	1.00	0.00
ATOM 786	CB	ARG A	53	2.894	6.100	9.735	1.00	0.00
ATOM 787	CG	ARG A	53	2.548	4.670	10.118	1.00	0.00
ATOM 788	CD	ARG A	53	3.333	4.215	11.337	1.00	0.00
ATOM 789	NE	ARG A	53	3.133	5.103	12.479	1.00	0.00
ATOM 790	CZ	ARG A	53	3.823	5.018	13.614	1.00	0.00
ATOM 791	NH1	ARG A	53	4.759	4.089	13.761	1.00	0.00
ATOM 792	NH2	ARG A	53	3.578	5.866	14.603	1.00	0.00
ATOM 793	H	ARG A	53	2.559	5.181	7.398	1.00	0.00
ATOM 794	HA	ARG A	53	4.136	7.242	8.421	1.00	0.00
ATOM 795	1HB	ARG A	53	3.264	6.607	10.615	1.00	0.00
ATOM 796	2HB	ARG A	53	1.991	6.589	9.401	1.00	0.00
ATOM 797	1HG	ARG A	53	1.494	4.612	10.340	1.00	0.00
ATOM 798	2HG	ARG A	53	2.780	4.020	9.287	1.00	0.00
ATOM 799	1HD	ARG A	53	3.011	3.220	11.605	1.00	0.00
ATOM 800	2HD	ARG A	53	4.385	4.196	11.086	1.00	0.00
ATOM 801	HE	ARG A	53	2.448	5.798	12.396	1.00	0.00
ATOM 802	1HH1	ARG A	53	4.948	3.447	13.018	1.00	0.00
ATOM 803	2HH1	ARG A	53	5.274	4.030	14.616	1.00	0.00
ATOM 804	1HH2	ARG A	53	2.875	6.569	14.498	1.00	0.00
ATOM 805	2HH2	ARG A	53	4.097	5.802	15.456	1.00	0.00
ATOM 806	N	ASN A	54	5.469	4.304	8.679	1.00	0.00
ATOM 807	CA	ASN A	54	6.676	3.577	9.055	1.00	0.00
ATOM 808	C	ASN A	54	7.702	3.590	7.925	1.00	0.00
ATOM 809	O	ASN A	54	8.902	3.457	8.164	1.00	0.00
ATOM 810	CB	ASN A	54	6.328	2.133	9.427	1.00	0.00

ATOM 811	CG	ASN A	54	6.178	1.943	10.924	1.00	0.00
ATOM 812	OD1	ASN A	54	7.142	2.075	11.677	1.00	0.00
ATOM 813	ND2	ASN A	54	4.965	1.629	11.362	1.00	0.00
ATOM 814	H	ASN A	54	4.804	3.865	8.109	1.00	0.00
ATOM 815	HA	ASN A	54	7.101	4.067	9.917	1.00	0.00
ATOM 816	1HB	ASN A	54	5.397	1.860	8.953	1.00	0.00
ATOM 817	2HB	ASN A	54	7.112	1.478	9.075	1.00	0.00
ATOM 818	1HD2	ASN A	54	4.244	1.538	10.704	1.00	0.00
ATOM 819	2HD2	ASN A	54	4.839	1.499	12.325	1.00	0.00
ATOM 820	N	SER A	55	7.224	3.749	6.693	1.00	0.00
ATOM 821	CA	SER A	55	8.103	3.776	5.530	1.00	0.00
ATOM 822	C	SER A	55	9.171	4.857	5.672	1.00	0.00
ATOM 823	O	SER A	55	9.039	5.770	6.488	1.00	0.00
ATOM 824	CB	SER A	55	7.290	4.012	4.255	1.00	0.00
ATOM 825	OG	SER A	55	6.670	5.286	4.274	1.00	0.00
ATOM 826	H	SER A	55	6.258	3.847	6.564	1.00	0.00
ATOM 827	HA	SER A	55	8.590	2.814	5.461	1.00	0.00
ATOM 828	1HB	SER A	55	7.945	3.957	3.399	1.00	0.00
ATOM 829	2HB	SER A	55	6.526	3.253	4.173	1.00	0.00
ATOM 830	HG	SER A	55	6.047	5.349	3.547	1.00	0.00
ATOM 831	N	SER A	56	10.226	4.745	4.874	1.00	0.00
ATOM 832	CA	SER A	56	11.319	5.711	4.907	1.00	0.00
ATOM 833	C	SER A	56	10.814	7.122	4.614	1.00	0.00
ATOM 834	O	SER A	56	11.455	8.108	4.977	1.00	0.00
ATOM 835	CB	SER A	56	12.399	5.324	3.897	1.00	0.00
ATOM 836	OG	SER A	56	11.826	4.808	2.709	1.00	0.00
ATOM 837	H	SER A	56	10.273	3.995	4.245	1.00	0.00

ATOM 838	HA	SER A	56	11.745	5.695	5.900	1.00	0.00
ATOM 839	1HB	SER A	56	12.986	6.196	3.648	1.00	0.00
ATOM 840	2HB	SER A	56	13.040	4.571	4.330	1.00	0.00
ATOM 841	HG	SER A	56	11.205	5.445	2.349	1.00	0.00
ATOM 842	N	ILE A	57	9.664	7.211	3.954	1.00	0.00
ATOM 843	CA	ILE A	57	9.076	8.500	3.614	1.00	0.00
ATOM 844	C	ILE A	57	7.808	8.751	4.424	1.00	0.00
ATOM 845	O	ILE A	57	6.740	9.004	3.868	1.00	0.00
ATOM 846	CB	ILE A	57	8.747	8.589	2.111	1.00	0.00
ATOM 847	CG1	ILE A	57	7.836	7.433	1.695	1.00	0.00
ATOM 848	CG2	ILE A	57	10.026	8.585	1.288	1.00	0.00
ATOM 849	CD1	ILE A	57	7.213	7.615	0.327	1.00	0.00
ATOM 850	H	ILE A	57	9.198	6.392	3.692	1.00	0.00
ATOM 851	HA	ILE A	57	9.799	9.268	3.848	1.00	0.00
ATOM 852	HB	ILE A	57	8.236	9.524	1.931	1.00	0.00
ATOM 853	1HG1	ILE A	57	8.410	6.518	1.677	1.00	0.00
ATOM 854	2HG1	ILE A	57	7.035	7.337	2.414	1.00	0.00
ATOM 855	1HG2	ILE A	57	10.808	8.087	1.840	1.00	0.00
ATOM 856	2HG2	ILE A	57	10.324	9.603	1.080	1.00	0.00
ATOM 857	3HG2	ILE A	57	9.854	8.064	0.357	1.00	0.00
ATOM 858	1HD1	ILE A	57	7.947	8.028	-0.349	1.00	0.00
ATOM 859	2HD1	ILE A	57	6.373	8.290	0.402	1.00	0.00
ATOM 860	3HD1	ILE A	57	6.876	6.660	-0.045	1.00	0.00
ATOM 861	N	LYS A	58	7.938	8.675	5.744	1.00	0.00
ATOM 862	CA	LYS A	58	6.806	8.890	6.639	1.00	0.00
ATOM 863	C	LYS A	58	6.687	10.360	7.042	1.00	0.00
ATOM 864	O	LYS A	58	6.133	10.679	8.095	1.00	0.00

ATOM 865	CB	LYS A	58	6.948	8.018	7.888	1.00	0.00
ATOM 866	CG	LYS A	58	8.137	8.393	8.759	1.00	0.00
ATOM 867	CD	LYS A	58	8.780	7.166	9.388	1.00	0.00
ATOM 868	CE	LYS A	58	8.884	7.302	10.898	1.00	0.00
ATOM 869	NZ	LYS A	58	8.753	5.987	11.586	1.00	0.00
ATOM 870	H	LYS A	58	8.816	8.466	6.126	1.00	0.00
ATOM 871	HA	LYS A	58	5.909	8.601	6.112	1.00	0.00
ATOM 872	1HB	LYS A	58	6.052	8.112	8.483	1.00	0.00
ATOM 873	2HB	LYS A	58	7.063	6.989	7.584	1.00	0.00
ATOM 874	1HG	LYS A	58	8.872	8.898	8.149	1.00	0.00
ATOM 875	2HG	LYS A	58	7.802	9.056	9.543	1.00	0.00
ATOM 876	1HD	LYS A	58	8.181	6.298	9.156	1.00	0.00
ATOM 877	2HD	LYS A	58	9.772	7.041	8.978	1.00	0.00
ATOM 878	1HE	LYS A	58	9.844	7.731	11.143	1.00	0.00
ATOM 879	2HE	LYS A	58	8.099	7.958	11.243	1.00	0.00
ATOM 880	1HZ	LYS A	58	8.233	6.101	12.479	1.00	0.00
ATOM 881	2HZ	LYS A	58	9.693	5.595	11.792	1.00	0.00
ATOM 882	3HZ	LYS A	58	8.236	5.317	10.979	1.00	0.00
ATOM 883	N	SER A	59	7.204	11.251	6.201	1.00	0.00
ATOM 884	CA	SER A	59	7.148	12.681	6.474	1.00	0.00
ATOM 885	C	SER A	59	6.592	13.445	5.275	1.00	0.00
ATOM 886	O	SER A	59	6.791	14.652	5.150	1.00	0.00
ATOM 887	CB	SER A	59	8.540	13.209	6.827	1.00	0.00
ATOM 888	OG	SER A	59	9.538	12.582	6.039	1.00	0.00
ATOM 889	H	SER A	59	7.631	10.940	5.377	1.00	0.00
ATOM 890	HA	SER A	59	6.492	12.832	7.318	1.00	0.00
ATOM 891	1HB	SER A	59	8.574	14.273	6.647	1.00	0.00

ATOM 892	2HB	SER A	59	8.745	13.012	7.868	1.00	0.00
ATOM 893	HG	SER A	59	9.521	11.635	6.194	1.00	0.00
ATOM 894	N	TYR A	60	5.892	12.732	4.396	1.00	0.00
ATOM 895	CA	TYR A	60	5.307	13.341	3.206	1.00	0.00
ATOM 896	C	TYR A	60	4.066	12.574	2.761	1.00	0.00
ATOM 897	O	TYR A	60	3.033	13.168	2.452	1.00	0.00
ATOM 898	CB	TYR A	60	6.330	13.380	2.069	1.00	0.00
ATOM 899	CG	TYR A	60	7.436	14.389	2.280	1.00	0.00
ATOM 900	CD1	TYR A	60	7.149	15.694	2.661	1.00	0.00
ATOM 901	CD2	TYR A	60	8.767	14.036	2.095	1.00	0.00
ATOM 902	CE1	TYR A	60	8.158	16.619	2.853	1.00	0.00
ATOM 903	CE2	TYR A	60	9.782	14.955	2.287	1.00	0.00
ATOM 904	CZ	TYR A	60	9.472	16.244	2.664	1.00	0.00
ATOM 905	OH	TYR A	60	10.480	17.163	2.855	1.00	0.00
ATOM 906	H	TYR A	60	5.766	11.774	4.549	1.00	0.00
ATOM 907	HA	TYR A	60	5.021	14.352	3.457	1.00	0.00
ATOM 908	1HB	TYR A	60	6.786	12.406	1.971	1.00	0.00
ATOM 909	2HB	TYR A	60	5.824	13.628	1.148	1.00	0.00
ATOM 910	HD1	TYR A	60	6.120	15.983	2.807	1.00	0.00
ATOM 911	HD2	TYR A	60	9.007	13.025	1.799	1.00	0.00
ATOM 912	HE1	TYR A	60	7.916	17.628	3.149	1.00	0.00
ATOM 913	HE2	TYR A	60	10.811	14.662	2.138	1.00	0.00
ATOM 914	HH	TYR A	60	10.246	17.989	2.424	1.00	0.00
ATOM 915	N	PHE A	61	4.175	11.248	2.730	1.00	0.00
ATOM 916	CA	PHE A	61	3.064	10.394	2.323	1.00	0.00
ATOM 917	C	PHE A	61	1.818	10.684	3.156	1.00	0.00
ATOM 918	O	PHE A	61	1.805	10.470	4.367	1.00	0.00

ATOM 919	CB	PHE A	61	3.450	8.920	2.461	1.00	0.00
ATOM 920	CG	PHE A	61	2.686	8.008	1.544	1.00	0.00
ATOM 921	CD1	PHE A	61	1.326	7.809	1.719	1.00	0.00
ATOM 922	CD2	PHE A	61	3.328	7.349	0.508	1.00	0.00
ATOM 923	CE1	PHE A	61	0.620	6.969	0.877	1.00	0.00
ATOM 924	CE2	PHE A	61	2.628	6.507	-0.336	1.00	0.00
ATOM 925	CZ	PHE A	61	1.273	6.317	-0.151	1.00	0.00
ATOM 926	H	PHE A	61	5.025	10.833	2.987	1.00	0.00
ATOM 927	HA	PHE A	61	2.846	10.604	1.286	1.00	0.00
ATOM 928	1HB	PHE A	61	4.500	8.808	2.239	1.00	0.00
ATOM 929	2HB	PHE A	61	3.267	8.602	3.477	1.00	0.00
ATOM 930	HD1	PHE A	61	0.815	8.318	2.523	1.00	0.00
ATOM 931	HD2	PHE A	61	4.389	7.496	0.363	1.00	0.00
ATOM 932	HE1	PHE A	61	-0.439	6.821	1.024	1.00	0.00
ATOM 933	HE2	PHE A	61	3.140	5.998	-1.139	1.00	0.00
ATOM 934	HZ	PHE A	61	0.725	5.661	-0.810	1.00	0.00
ATOM 935	N	SER A	62	0.773	11.172	2.495	1.00	0.00
ATOM 936	CA	SER A	62	-0.478	11.492	3.175	1.00	0.00
ATOM 937	C	SER A	62	-1.270	10.225	3.480	1.00	0.00
ATOM 938	O	SER A	62	-1.349	9.792	4.630	1.00	0.00
ATOM 939	CB	SER A	62	-1.319	12.439	2.318	1.00	0.00
ATOM 940	OG	SER A	62	-1.522	11.911	1.019	1.00	0.00
ATOM 941	H	SER A	62	0.843	11.321	1.530	1.00	0.00
ATOM 942	HA	SER A	62	-0.234	11.982	4.105	1.00	0.00
ATOM 943	1HB	SER A	62	-2.281	12.586	2.787	1.00	0.00
ATOM 944	2HB	SER A	62	-0.813	13.389	2.232	1.00	0.00
ATOM 945	HG	SER A	62	-2.343	12.252	0.659	1.00	0.00

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ATOM 946	N	ASP	A	63	-1.855	9.634	2.443	1.00	0.00
ATOM 947	CA	ASP	A	63	-2.642	8.417	2.600	1.00	0.00
ATOM 948	C	ASP	A	63	-2.768	7.676	1.273	1.00	0.00
ATOM 949	O	ASP	A	63	-2.156	8.057	0.277	1.00	0.00
ATOM 950	CB	ASP	A	63	-4.030	8.749	3.148	1.00	0.00
ATOM 951	CG	ASP	A	63	-4.525	7.713	4.138	1.00	0.00
ATOM 952	OD1	ASP	A	63	-4.428	6.506	3.832	1.00	0.00
ATOM 953	OD2	ASP	A	63	-5.008	8.109	5.219	1.00	0.00
ATOM 954	H	ASP	A	63	-1.756	10.027	1.550	1.00	0.00
ATOM 955	HA	ASP	A	63	-2.129	7.781	3.306	1.00	0.00
ATOM 956	1HB	ASP	A	63	-3.996	9.707	3.645	1.00	0.00
ATOM 957	2HB	ASP	A	63	-4.732	8.800	2.327	1.00	0.00
ATOM 958	N	CYS	A	64	-3.569	6.614	1.269	1.00	0.00
ATOM 959	CA	CYS	A	64	-3.777	5.818	0.064	1.00	0.00
ATOM 960	C	CYS	A	64	-5.233	5.885	-0.385	1.00	0.00
ATOM 961	O	CYS	A	64	-6.148	5.887	0.439	1.00	0.00
ATOM 962	CB	CYS	A	64	-3.374	4.364	0.313	1.00	0.00
ATOM 963	SG	CYS	A	64	-4.086	3.647	1.813	1.00	0.00
ATOM 964	H	CYS	A	64	-4.030	6.360	2.095	1.00	0.00
ATOM 965	HA	CYS	A	64	-3.154	6.227	-0.715	1.00	0.00
ATOM 966	1HB	CYS	A	64	-3.695	3.761	-0.523	1.00	0.00
ATOM 967	2HB	CYS	A	64	-2.299	4.307	0.398	1.00	0.00
ATOM 968	HG	CYS	A	64	-4.052	2.691	1.729	1.00	0.00
ATOM 969	N	GLN	A	65	-5.441	5.941	-1.696	1.00	0.00
ATOM 970	CA	GLN	A	65	-6.787	6.008	-2.256	1.00	0.00
ATOM 971	C	GLN	A	65	-7.100	4.758	-3.072	1.00	0.00
ATOM 972	O	GLN	A	65	-6.785	4.686	-4.260	1.00	0.00

ATOM 973	CB	GLN A	65	-6.936	7.254	-3.130	1.00	0.00
ATOM 974	CG	GLN A	65	-8.381	7.665	-3.362	1.00	0.00
ATOM 975	CD	GLN A	65	-8.510	9.097	-3.844	1.00	0.00
ATOM 976	OE1	GLN A	65	-8.629	10.025	-3.044	1.00	0.00
ATOM 977	NE2	GLN A	65	-8.487	9.283	-5.158	1.00	0.00
ATOM 978	H	GLN A	65	-4.671	5.937	-2.303	1.00	0.00
ATOM 979	HA	GLN A	65	-7.484	6.071	-1.433	1.00	0.00
ATOM 980	1HB	GLN A	65	-6.421	8.077	-2.657	1.00	0.00
ATOM 981	2HB	GLN A	65	-6.481	7.061	-4.092	1.00	0.00
ATOM 982	1HG	GLN A	65	-8.814	7.012	-4.104	1.00	0.00
ATOM 983	2HG	GLN A	65	-8.924	7.562	-2.433	1.00	0.00
ATOM 984	1HE2	GLN A	65	-8.389	8.498	-5.736	1.00	0.00
ATOM 985	2HE2	GLN A	65	-8.569	10.200	-5.497	1.00	0.00
ATOM 986	N	VAL A	66	-7.722	3.777	-2.427	1.00	0.00
ATOM 987	CA	VAL A	66	-8.079	2.530	-3.094	1.00	0.00
ATOM 988	C	VAL A	66	-9.177	2.759	-4.129	1.00	0.00
ATOM 989	O	VAL A	66	-10.299	3.128	-3.786	1.00	0.00
ATOM 990	CB	VAL A	66	-8.547	1.465	-2.082	1.00	0.00
ATOM 991	CG1	VAL A	66	-9.799	1.930	-1.352	1.00	0.00
ATOM 992	CG2	VAL A	66	-8.789	0.134	-2.779	1.00	0.00
ATOM 993	H	VAL A	66	-7.948	3.894	-1.481	1.00	0.00
ATOM 994	HA	VAL A	66	-7.197	2.157	-3.595	1.00	0.00
ATOM 995	HB	VAL A	66	-7.765	1.326	-1.351	1.00	0.00
ATOM 996	1HG1	VAL A	66	-9.740	2.994	-1.178	1.00	0.00
ATOM 997	2HG1	VAL A	66	-9.876	1.414	-0.407	1.00	0.00
ATOM 998	3HG1	VAL A	66	-10.668	1.711	-1.954	1.00	0.00
ATOM 999	1HG2	VAL A	66	-9.660	-0.344	-2.353	1.00	0.00



ATOM 1000	2HG2	VAL	A	66	-7.928	-0.505	-2.644	1.00	0.00
ATOM 1001	3HG2	VAL	A	66	-8.951	0.302	-3.833	1.00	0.00
ATOM 1002	N	LEU	A	67	-8.844	2.536	-5.396	1.00	0.00
ATOM 1003	CA	LEU	A	67	-9.801	2.718	-6.481	1.00	0.00
ATOM 1004	C	LEU	A	67	-10.822	1.586	-6.502	1.00	0.00
ATOM 1005	O	LEU	A	67	-12.009	1.802	-6.256	1.00	0.00
ATOM 1006	CB	LEU	A	67	-9.074	2.789	-7.825	1.00	0.00
ATOM 1007	CG	LEU	A	67	-7.898	3.766	-7.874	1.00	0.00
ATOM 1008	CD1	LEU	A	67	-7.177	3.665	-9.209	1.00	0.00
ATOM 1009	CD2	LEU	A	67	-8.378	5.189	-7.631	1.00	0.00
ATOM 1010	H	LEU	A	67	-7.932	2.244	-5.607	1.00	0.00
ATOM 1011	HA	LEU	A	67	-10.319	3.651	-6.312	1.00	0.00
ATOM 1012	1HB	LEU	A	67	-8.704	1.801	-8.062	1.00	0.00
ATOM 1013	2HB	LEU	A	67	-9.786	3.080	-8.581	1.00	0.00
ATOM 1014	HG	LEU	A	67	-7.194	3.512	-7.094	1.00	0.00
ATOM 1015	1HD1	LEU	A	67	-7.903	3.616	-10.007	1.00	0.00
ATOM 1016	2HD1	LEU	A	67	-6.566	2.774	-9.222	1.00	0.00
ATOM 1017	3HD1	LEU	A	67	-6.549	4.533	-9.345	1.00	0.00
ATOM 1018	1HD2	LEU	A	67	-9.384	5.299	-8.009	1.00	0.00
ATOM 1019	2HD2	LEU	A	67	-7.724	5.881	-8.140	1.00	0.00
ATOM 1020	3HD2	LEU	A	67	-8.368	5.397	-6.571	1.00	0.00
ATOM 1021	N	ALA	A	68	-10.353	0.378	-6.796	1.00	0.00
ATOM 1022	CA	ALA	A	68	-11.225	-0.789	-6.849	1.00	0.00
ATOM 1023	C	ALA	A	68	-10.421	-2.082	-6.767	1.00	0.00
ATOM 1024	O	ALA	A	68	-9.223	-2.063	-6.486	1.00	0.00
ATOM 1025	CB	ALA	A	68	-12.060	-0.765	-8.121	1.00	0.00
ATOM 1026	H	ALA	A	68	-9.396	0.269	-6.983	1.00	0.00

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ATOM 1027	HA	ALA	A	68	-11.897	-0.741	-6.005	1.00	0.00
ATOM 1028	1HB	ALA	A	68	-12.437	0.234	-8.284	1.00	0.00
ATOM 1029	2HB	ALA	A	68	-12.889	-1.451	-8.020	1.00	0.00
ATOM 1030	3HB	ALA	A	68	-11.448	-1.061	-8.960	1.00	0.00
ATOM 1031	N	PHE	A	69	-11.089	-3.204	-7.015	1.00	0.00
ATOM 1032	CA	PHE	A	69	-10.438	-4.508	-6.970	1.00	0.00
ATOM 1033	C	PHE	A	69	-10.585	-5.236	-8.301	1.00	0.00
ATOM 1034	O	PHE	A	69	-11.681	-5.322	-8.856	1.00	0.00
ATOM 1035	CB	PHE	A	69	-11.031	-5.357	-5.844	1.00	0.00
ATOM 1036	CG	PHE	A	69	-10.829	-4.768	-4.478	1.00	0.00
ATOM 1037	CD1	PHE	A	69	-11.839	-4.044	-3.865	1.00	0.00
ATOM 1038	CD2	PHE	A	69	-9.628	-4.937	-3.807	1.00	0.00
ATOM 1039	CE1	PHE	A	69	-11.656	-3.500	-2.607	1.00	0.00
ATOM 1040	CE2	PHE	A	69	-9.439	-4.395	-2.550	1.00	0.00
ATOM 1041	CZ	PHE	A	69	-10.455	-3.676	-1.950	1.00	0.00
ATOM 1042	H	PHE	A	69	-12.043	-3.154	-7.234	1.00	0.00
ATOM 1043	HA	PHE	A	69	-9.389	-4.349	-6.774	1.00	0.00
ATOM 1044	1HB	PHE	A	69	-12.093	-5.465	-6.005	1.00	0.00
ATOM 1045	2HB	PHE	A	69	-10.569	-6.334	-5.858	1.00	0.00
ATOM 1046	HD1	PHE	A	69	-12.779	-3.907	-4.378	1.00	0.00
ATOM 1047	HD2	PHE	A	69	-8.833	-5.499	-4.276	1.00	0.00
ATOM 1048	HE1	PHE	A	69	-12.451	-2.939	-2.141	1.00	0.00
ATOM 1049	HE2	PHE	A	69	-8.499	-4.533	-2.039	1.00	0.00
ATOM 1050	HZ	PHE	A	69	-10.309	-3.252	-0.967	1.00	0.00
ATOM 1051	N	ARG	A	70	-9.473	-5.758	-8.810	1.00	0.00
ATOM 1052	CA	ARG	A	70	-9.478	-6.479	-10.078	1.00	0.00
ATOM 1053	C	ARG	A	70	-9.632	-7.979	-9.850	1.00	0.00

ATOM 1054	O	ARG	A	70	-8.758	-8.621	-9.266	1.00	0.00
ATOM 1055	CB	ARG	A	70	-8.190	-6.198	-10.854	1.00	0.00
ATOM 1056	CG	ARG	A	70	-8.131	-4.800	-11.448	1.00	0.00
ATOM 1057	CD	ARG	A	70	-9.170	-4.613	-12.541	1.00	0.00
ATOM 1058	NE	ARG	A	70	-8.959	-5.528	-13.661	1.00	0.00
ATOM 1059	CZ	ARG	A	70	-9.564	-5.408	-14.840	1.00	0.00
ATOM 1060	NH1	ARG	A	70	-10.419	-4.416	-15.058	1.00	0.00
ATOM 1061	NH2	ARG	A	70	-9.314	-6.284	-15.804	1.00	0.00
ATOM 1062	H	ARG	A	70	-8.630	-5.657	-8.321	1.00	0.00
ATOM 1063	HA	ARG	A	70	-10.320	-6.127	-10.655	1.00	0.00
ATOM 1064	1HB	ARG	A	70	-7.350	-6.318	-10.187	1.00	0.00
ATOM 1065	2HB	ARG	A	70	-8.106	-6.913	-11.660	1.00	0.00
ATOM 1066	1HG	ARG	A	70	-8.313	-4.079	-10.665	1.00	0.00
ATOM 1067	2HG	ARG	A	70	-7.148	-4.639	-11.867	1.00	0.00
ATOM 1068	1HD	ARG	A	70	-10.150	-4.793	-12.123	1.00	0.00
ATOM 1069	2HD	ARG	A	70	-9.116	-3.597	-12.903	1.00	0.00
ATOM 1070	HE	ARG	A	70	-8.333	-6.269	-13.527	1.00	0.00
ATOM 1071	1HH1	ARG	A	70	-10.611	-3.753	-14.335	1.00	0.00
ATOM 1072	2HH1	ARG	A	70	-10.870	-4.332	-15.946	1.00	0.00
ATOM 1073	1HH2	ARG	A	70	-8.672	-7.033	-15.646	1.00	0.00
ATOM 1074	2HH2	ARG	A	70	-9.769	-6.195	-16.690	1.00	0.00
ATOM 1075	N	SER	A	71	-10.748	-8.532	-10.314	1.00	0.00
ATOM 1076	CA	SER	A	71	-11.016	-9.957	-10.160	1.00	0.00
ATOM 1077	C	SER	A	71	-10.269	-10.769	-11.212	1.00	0.00
ATOM 1078	O	SER	A	71	-10.586	-10.705	-12.401	1.00	0.00
ATOM 1079	CB	SER	A	71	-12.518	-10.228	-10.260	1.00	0.00
ATOM 1080	OG	SER	A	71	-12.853	-11.473	-9.671	1.00	0.00

ATOM 1081	H	SER A	71	-11.406	-7.968	-10.770	1.00	0.00
ATOM 1082	HA	SER A	71	-10.671	-10.255	-9.181	1.00	0.00
ATOM 1083	1HB	SER A	71	-13.058	-9.445	-9.749	1.00	0.00
ATOM 1084	2HB	SER A	71	-12.809	-10.245	-11.300	1.00	0.00
ATOM 1085	HG	SER A	71	-12.218	-12.138	-9.948	1.00	0.00
ATOM 1086	N	VAL A	72	-9.277	-11.534	-10.769	1.00	0.00
ATOM 1087	CA	VAL A	72	-8.485	-12.358	-11.673	1.00	0.00
ATOM 1088	C	VAL A	72	-9.302	-13.532	-12.203	1.00	0.00
ATOM 1089	O	VAL A	72	-10.075	-14.146	-11.468	1.00	0.00
ATOM 1090	CB	VAL A	72	-7.221	-12.899	-10.980	1.00	0.00
ATOM 1091	CG1	VAL A	72	-6.196	-11.790	-10.795	1.00	0.00
ATOM 1092	CG2	VAL A	72	-7.574	-13.536	-9.644	1.00	0.00
ATOM 1093	H	VAL A	72	-9.072	-11.543	-9.810	1.00	0.00
ATOM 1094	HA	VAL A	72	-8.179	-11.741	-12.505	1.00	0.00
ATOM 1095	HB	VAL A	72	-6.785	-13.659	-11.612	1.00	0.00
ATOM 1096	1HG1	VAL A	72	-5.491	-11.812	-11.613	1.00	0.00
ATOM 1097	2HG1	VAL A	72	-5.671	-11.936	-9.863	1.00	0.00
ATOM 1098	3HG1	VAL A	72	-6.699	-10.834	-10.780	1.00	0.00
ATOM 1099	1HG2	VAL A	72	-7.618	-12.772	-8.881	1.00	0.00
ATOM 1100	2HG2	VAL A	72	-6.822	-14.265	-9.382	1.00	0.00
ATOM 1101	3HG2	VAL A	72	-8.536	-14.022	-9.720	1.00	0.00
ATOM 1102	N	SER A	73	-9.125	-13.837	-13.484	1.00	0.00
ATOM 1103	CA	SER A	73	-9.845	-14.938	-14.115	1.00	0.00
ATOM 1104	C	SER A	73	-9.022	-16.221	-14.080	1.00	0.00
ATOM 1105	O	SER A	73	-9.571	-17.322	-14.066	1.00	0.00
ATOM 1106	CB	SER A	73	-10.197	-14.583	-15.561	1.00	0.00
ATOM 1107	OG	SER A	73	-11.183	-13.565	-15.611	1.00	0.00

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ATOM	1108	H	SER	A	73	-8.495	-13.310	-14.019	1.00	0.00
ATOM	1109	HA	SER	A	73	-10.759	-15.095	-13.561	1.00	0.00
ATOM	1110	1HB	SER	A	73	-9.311	-14.232	-16.069	1.00	0.00
ATOM	1111	2HB	SER	A	73	-10.575	-15.461	-16.063	1.00	0.00
ATOM	1112	N	ASN	A	74	-7.700	-16.072	-14.065	1.00	0.00
ATOM	1113	CA	ASN	A	74	-6.801	-17.220	-14.032	1.00	0.00
ATOM	1114	C	ASN	A	74	-7.085	-18.102	-12.820	1.00	0.00
ATOM	1115	O	ASN	A	74	-6.984	-19.328	-12.894	1.00	0.00
ATOM	1116	CB	ASN	A	74	-5.344	-16.753	-14.005	1.00	0.00
ATOM	1117	CG	ASN	A	74	-5.087	-15.720	-12.924	1.00	0.00
ATOM	1118	OD1	ASN	A	74	-5.182	-14.518	-13.164	1.00	0.00
ATOM	1119	ND2	ASN	A	74	-4.758	-16.189	-11.726	1.00	0.00
ATOM	1120	H	ASN	A	74	-7.320	-15.169	-14.076	1.00	0.00
ATOM	1121	HA	ASN	A	74	-6.967	-17.797	-14.929	1.00	0.00
ATOM	1122	1HB	ASN	A	74	-4.703	-17.602	-13.825	1.00	0.00
ATOM	1123	2HB	ASN	A	74	-5.096	-16.316	-14.961	1.00	0.00
ATOM	1124	1HD2	ASN	A	74	-4.702	-17.160	-11.608	1.00	0.00
ATOM	1125	2HD2	ASN	A	74	-4.586	-15.544	-11.008	1.00	0.00
ATOM	1126	N	ASN	A	75	-7.438	-17.473	-11.704	1.00	0.00
ATOM	1127	CA	ASN	A	75	-7.736	-18.201	-10.477	1.00	0.00
ATOM	1128	C	ASN	A	75	-8.706	-17.415	-9.601	1.00	0.00
ATOM	1129	O	ASN	A	75	-8.484	-16.240	-9.311	1.00	0.00
ATOM	1130	CB	ASN	A	75	-6.448	-18.488	-9.705	1.00	0.00
ATOM	1131	CG	ASN	A	75	-6.523	-19.778	-8.911	1.00	0.00
ATOM	1132	OD1	ASN	A	75	-5.817	-20.742	-9.203	1.00	0.00
ATOM	1133	ND2	ASN	A	75	-7.383	-19.802	-7.900	1.00	0.00
ATOM	1134	H	ASN	A	75	-7.501	-16.495	-11.707	1.00	0.00

ATOM 1135	HA	ASN A	75	-8.196	-19.138	-10.752	1.00	0.00
ATOM 1136	1HB	ASN A	75	-5.627	-18.564	-10.401	1.00	0.00
ATOM 1137	2HB	ASN A	75	-6.259	-17.676	-9.018	1.00	0.00
ATOM 1138	1HD2	ASN A	75	-7.915	-18.996	-7.725	1.00	0.00
ATOM 1139	2HD2	ASN A	75	-7.453	-20.623	-7.370	1.00	0.00
ATOM 1140	N	ASN A	76	-9.782	-18.073	-9.181	1.00	0.00
ATOM 1141	CA	ASN A	76	-10.786	-17.437	-8.337	1.00	0.00
ATOM 1142	C	ASN A	76	-10.358	-17.459	-6.873	1.00	0.00
ATOM 1143	O	ASN A	76	-10.868	-18.248	-6.078	1.00	0.00
ATOM 1144	CB	ASN A	76	-12.136	-18.139	-8.497	1.00	0.00
ATOM 1145	CG	ASN A	76	-12.817	-17.788	-9.805	1.00	0.00
ATOM 1146	OD1	ASN A	76	-13.162	-18.668	-10.595	1.00	0.00
ATOM 1147	ND2	ASN A	76	-13.016	-16.496	-10.042	1.00	0.00
ATOM 1148	H	ASN A	76	-9.903	-19.009	-9.446	1.00	0.00
ATOM 1149	HA	ASN A	76	-10.884	-16.410	-8.656	1.00	0.00
ATOM 1150	1HB	ASN A	76	-11.985	-19.207	-8.468	1.00	0.00
ATOM 1151	2HB	ASN A	76	-12.785	-17.848	-7.685	1.00	0.00
ATOM 1152	1HD2	ASN A	76	-12.716	-15.851	-9.368	1.00	0.00
ATOM 1153	2HD2	ASN A	76	-13.456	-16.241	-10.879	1.00	0.00
ATOM 1154	N	ASN A	77	-9.419	-16.587	-6.525	1.00	0.00
ATOM 1155	CA	ASN A	77	-8.922	-16.505	-5.156	1.00	0.00
ATOM 1156	C	ASN A	77	-8.146	-15.211	-4.936	1.00	0.00
ATOM 1157	O	ASN A	77	-8.315	-14.541	-3.918	1.00	0.00
ATOM 1158	CB	ASN A	77	-8.029	-17.708	-4.845	1.00	0.00
ATOM 1159	CG	ASN A	77	-8.113	-18.131	-3.391	1.00	0.00
ATOM 1160	OD1	ASN A	77	-7.097	-18.262	-2.711	1.00	0.00
ATOM 1161	ND2	ASN A	77	-9.332	-18.350	-2.909	1.00	0.00

ATOM	1162	H	ASN	A	77	-9.051	-15.983	-7.204	1.00	0.00
ATOM	1163	HA	ASN	A	77	-9.773	-16.519	-4.494	1.00	0.00
ATOM	1164	1HB	ASN	A	77	-8.331	-18.542	-5.461	1.00	0.00
ATOM	1165	2HB	ASN	A	77	-7.003	-17.454	-5.069	1.00	0.00
ATOM	1166	1HD2	ASN	A	77	-10.096	-18.228	-3.510	1.00	0.00
ATOM	1167	2HD2	ASN	A	77	-9.415	-18.625	-1.972	1.00	0.00
ATOM	1168	N	HIS	A	78	-7.297	-14.863	-5.899	1.00	0.00
ATOM	1169	CA	HIS	A	78	-6.498	-13.648	-5.810	1.00	0.00
ATOM	1170	C	HIS	A	78	-7.330	-12.422	-6.169	1.00	0.00
ATOM	1171	O	HIS	A	78	-8.497	-12.540	-6.546	1.00	0.00
ATOM	1172	CB	HIS	A	78	-5.283	-13.743	-6.734	1.00	0.00
ATOM	1173	CG	HIS	A	78	-4.481	-14.992	-6.541	1.00	0.00
ATOM	1174	ND1	HIS	A	78	-3.531	-15.425	-7.443	1.00	0.00
ATOM	1175	CD2	HIS	A	78	-4.490	-15.904	-5.540	1.00	0.00
ATOM	1176	CE1	HIS	A	78	-2.992	-16.549	-7.006	1.00	0.00
ATOM	1177	NE2	HIS	A	78	-3.555	-16.861	-5.854	1.00	0.00
ATOM	1178	H	HIS	A	78	-7.208	-15.438	-6.687	1.00	0.00
ATOM	1179	HA	HIS	A	78	-6.156	-13.549	-4.790	1.00	0.00
ATOM	1180	1HB	HIS	A	78	-5.618	-13.720	-7.761	1.00	0.00
ATOM	1181	2HB	HIS	A	78	-4.634	-12.899	-6.553	1.00	0.00
ATOM	1182	HD1	HIS	A	78	-3.289	-14.975	-8.279	1.00	0.00
ATOM	1183	HD2	HIS	A	78	-5.116	-15.884	-4.660	1.00	0.00
ATOM	1184	HE1	HIS	A	78	-2.220	-17.115	-7.506	1.00	0.00
ATOM	1185	HE2	HIS	A	78	-3.280	-17.599	-5.272	1.00	0.00
ATOM	1186	N	THR	A	79	-6.725	-11.244	-6.050	1.00	0.00
ATOM	1187	CA	THR	A	79	-7.413	-9.997	-6.362	1.00	0.00
ATOM	1188	C	THR	A	79	-6.414	-8.865	-6.582	1.00	0.00

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ATOM	1189	O	THR	A	79	-5.481	-8.685	-5.800	1.00	0.00
ATOM	1190	CB	THR	A	79	-8.378	-9.629	-5.234	1.00	0.00
ATOM	1191	OG1	THR	A	79	-9.310	-10.672	-5.011	1.00	0.00
ATOM	1192	CG2	THR	A	79	-9.163	-8.363	-5.507	1.00	0.00
ATOM	1193	H	THR	A	79	-5.794	-11.214	-5.744	1.00	0.00
ATOM	1194	HA	THR	A	79	-7.975	-10.147	-7.270	1.00	0.00
ATOM	1195	HB	THR	A	79	-7.812	-9.478	-4.326	1.00	0.00
ATOM	1196	HG1	THR	A	79	-9.265	-10.950	-4.093	1.00	0.00
ATOM	1197	1HG2	THR	A	79	-8.542	-7.504	-5.297	1.00	0.00
ATOM	1198	2HG2	THR	A	79	-10.037	-8.339	-4.875	1.00	0.00
ATOM	1199	3HG2	THR	A	79	-9.465	-8.344	-6.542	1.00	0.00
ATOM	1200	N	GLY	A	80	-6.618	-8.102	-7.651	1.00	0.00
ATOM	1201	CA	GLY	A	80	-5.729	-6.995	-7.953	1.00	0.00
ATOM	1202	C	GLY	A	80	-6.056	-5.754	-7.148	1.00	0.00
ATOM	1203	O	GLY	A	80	-7.158	-5.215	-7.245	1.00	0.00
ATOM	1204	H	GLY	A	80	-7.380	-8.291	-8.239	1.00	0.00
ATOM	1205	1HA	GLY	A	80	-4.714	-7.295	-7.737	1.00	0.00
ATOM	1206	2HA	GLY	A	80	-5.809	-6.760	-9.004	1.00	0.00
ATOM	1207	N	VAL	A	81	-5.097	-5.300	-6.347	1.00	0.00
ATOM	1208	CA	VAL	A	81	-5.289	-4.115	-5.520	1.00	0.00
ATOM	1209	C	VAL	A	81	-4.929	-2.845	-6.283	1.00	0.00
ATOM	1210	O	VAL	A	81	-3.770	-2.432	-6.309	1.00	0.00
ATOM	1211	CB	VAL	A	81	-4.443	-4.185	-4.233	1.00	0.00
ATOM	1212	CG1	VAL	A	81	-4.729	-2.988	-3.336	1.00	0.00
ATOM	1213	CG2	VAL	A	81	-4.705	-5.487	-3.493	1.00	0.00
ATOM	1214	H	VAL	A	81	-4.239	-5.774	-6.313	1.00	0.00
ATOM	1215	HA	VAL	A	81	-6.331	-4.072	-5.239	1.00	0.00



ATOM	1216	HB	VAL	A	81	-3.401	-4.157	-4.510	1.00	0.00
ATOM	1217	1HG1	VAL	A	81	-4.384	-2.086	-3.818	1.00	0.00
ATOM	1218	2HG1	VAL	A	81	-4.213	-3.113	-2.395	1.00	0.00
ATOM	1219	3HG1	VAL	A	81	-5.791	-2.918	-3.157	1.00	0.00
ATOM	1220	1HG2	VAL	A	81	-4.335	-5.406	-2.482	1.00	0.00
ATOM	1221	2HG2	VAL	A	81	-4.198	-6.296	-3.998	1.00	0.00
ATOM	1222	3HG2	VAL	A	81	-5.767	-5.683	-3.474	1.00	0.00
ATOM	1223	N	ASP	A	82	-5.932	-2.227	-6.898	1.00	0.00
ATOM	1224	CA	ASP	A	82	-5.722	-0.999	-7.656	1.00	0.00
ATOM	1225	C	ASP	A	82	-5.882	0.220	-6.753	1.00	0.00
ATOM	1226	O	ASP	A	82	-6.972	0.784	-6.640	1.00	0.00
ATOM	1227	CB	ASP	A	82	-6.707	-0.919	-8.824	1.00	0.00
ATOM	1228	CG	ASP	A	82	-6.065	-0.376	-10.085	1.00	0.00
ATOM	1229	OD1	ASP	A	82	-5.754	-1.181	-10.987	1.00	0.00
ATOM	1230	OD2	ASP	A	82	-5.875	0.855	-10.172	1.00	0.00
ATOM	1231	H	ASP	A	82	-6.835	-2.602	-6.837	1.00	0.00
ATOM	1232	HA	ASP	A	82	-4.715	-1.016	-8.044	1.00	0.00
ATOM	1233	1HB	ASP	A	82	-7.087	-1.908	-9.034	1.00	0.00
ATOM	1234	2HB	ASP	A	82	-7.529	-0.272	-8.552	1.00	0.00
ATOM	1235	N	SER	A	83	-4.791	0.617	-6.106	1.00	0.00
ATOM	1236	CA	SER	A	83	-4.811	1.764	-5.206	1.00	0.00
ATOM	1237	C	SER	A	83	-4.056	2.945	-5.805	1.00	0.00
ATOM	1238	O	SER	A	83	-3.570	2.878	-6.934	1.00	0.00
ATOM	1239	CB	SER	A	83	-4.203	1.384	-3.855	1.00	0.00
ATOM	1240	OG	SER	A	83	-3.158	0.440	-4.012	1.00	0.00
ATOM	1241	H	SER	A	83	-3.954	0.124	-6.234	1.00	0.00
ATOM	1242	HA	SER	A	83	-5.841	2.050	-5.057	1.00	0.00

ATOM	1243	1HB	SER	A	83	-3.802	2.267	-3.381	1.00	0.00
ATOM	1244	2HB	SER	A	83	-4.968	0.954	-3.226	1.00	0.00
ATOM	1245	HG	SER	A	83	-3.518	-0.383	-4.352	1.00	0.00
ATOM	1246	N	LEU	A	84	-3.965	4.029	-5.041	1.00	0.00
ATOM	1247	CA	LEU	A	84	-3.272	5.231	-5.493	1.00	0.00
ATOM	1248	C	LEU	A	84	-2.419	5.819	-4.373	1.00	0.00
ATOM	1249	O	LEU	A	84	-2.935	6.188	-3.317	1.00	0.00
ATOM	1250	CB	LEU	A	84	-4.287	6.269	-5.979	1.00	0.00
ATOM	1251	CG	LEU	A	84	-3.697	7.454	-6.749	1.00	0.00
ATOM	1252	CD1	LEU	A	84	-2.923	8.370	-5.814	1.00	0.00
ATOM	1253	CD2	LEU	A	84	-2.807	6.965	-7.882	1.00	0.00
ATOM	1254	H	LEU	A	84	-4.376	4.022	-4.151	1.00	0.00
ATOM	1255	HA	LEU	A	84	-2.629	4.955	-6.314	1.00	0.00
ATOM	1256	1HB	LEU	A	84	-5.000	5.770	-6.620	1.00	0.00
ATOM	1257	2HB	LEU	A	84	-4.813	6.656	-5.119	1.00	0.00
ATOM	1258	HG	LEU	A	84	-4.503	8.028	-7.183	1.00	0.00
ATOM	1259	1HD1	LEU	A	84	-3.162	9.399	-6.038	1.00	0.00
ATOM	1260	2HD1	LEU	A	84	-1.863	8.211	-5.948	1.00	0.00
ATOM	1261	3HD1	LEU	A	84	-3.192	8.153	-4.791	1.00	0.00
ATOM	1262	1HD2	LEU	A	84	-2.446	7.811	-8.447	1.00	0.00
ATOM	1263	2HD2	LEU	A	84	-3.374	6.314	-8.530	1.00	0.00
ATOM	1264	3HD2	LEU	A	84	-1.969	6.423	-7.471	1.00	0.00
ATOM	1265	N	CYS	A	85	-1.113	5.908	-4.610	1.00	0.00
ATOM	1266	CA	CYS	A	85	-0.196	6.456	-3.616	1.00	0.00
ATOM	1267	C	CYS	A	85	-0.409	7.959	-3.459	1.00	0.00
ATOM	1268	O	CYS	A	85	0.291	8.761	-4.077	1.00	0.00
ATOM	1269	CB	CYS	A	85	1.258	6.176	-4.006	1.00	0.00

ATOM	1270	SG	CYS	A	85	1.548	4.515	-4.660	1.00	0.00
ATOM	1271	H	CYS	A	85	-0.759	5.600	-5.470	1.00	0.00
ATOM	1272	HA	CYS	A	85	-0.406	5.974	-2.672	1.00	0.00
ATOM	1273	1HB	CYS	A	85	1.563	6.882	-4.761	1.00	0.00
ATOM	1274	2HB	CYS	A	85	1.885	6.298	-3.134	1.00	0.00
ATOM	1275	HG	CYS	A	85	1.165	4.471	-5.539	1.00	0.00
ATOM	1276	N	ASN	A	86	-1.381	8.332	-2.633	1.00	0.00
ATOM	1277	CA	ASN	A	86	-1.689	9.739	-2.399	1.00	0.00
ATOM	1278	C	ASN	A	86	-0.614	10.399	-1.542	1.00	0.00
ATOM	1279	O	ASN	A	86	-0.264	9.897	-0.473	1.00	0.00
ATOM	1280	CB	ASN	A	86	-3.057	9.876	-1.724	1.00	0.00
ATOM	1281	CG	ASN	A	86	-4.109	10.440	-2.658	1.00	0.00
ATOM	1282	OD1	ASN	A	86	-4.334	11.649	-2.700	1.00	0.00
ATOM	1283	ND2	ASN	A	86	-4.761	9.564	-3.413	1.00	0.00
ATOM	1284	H	ASN	A	86	-1.907	7.644	-2.172	1.00	0.00
ATOM	1285	HA	ASN	A	86	-1.722	10.234	-3.358	1.00	0.00
ATOM	1286	1HB	ASN	A	86	-3.385	8.904	-1.389	1.00	0.00
ATOM	1287	2HB	ASN	A	86	-2.968	10.535	-0.873	1.00	0.00
ATOM	1288	1HD2	ASN	A	86	-4.530	8.615	-3.327	1.00	0.00
ATOM	1289	2HD2	ASN	A	86	-5.448	9.901	-4.026	1.00	0.00
ATOM	1290	N	PHE	A	87	-0.095	11.526	-2.017	1.00	0.00
ATOM	1291	CA	PHE	A	87	0.940	12.256	-1.292	1.00	0.00
ATOM	1292	C	PHE	A	87	0.450	13.644	-0.892	1.00	0.00
ATOM	1293	O	PHE	A	87	-0.636	14.068	-1.287	1.00	0.00
ATOM	1294	CB	PHE	A	87	2.202	12.377	-2.149	1.00	0.00
ATOM	1295	CG	PHE	A	87	3.164	11.239	-1.964	1.00	0.00
ATOM	1296	CD1	PHE	A	87	4.453	11.470	-1.515	1.00	0.00

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ATOM	1297	CD2	PHE	A	87	2.777	9.938	-2.240	1.00	0.00
ATOM	1298	CE1	PHE	A	87	5.340	10.425	-1.345	1.00	0.00
ATOM	1299	CE2	PHE	A	87	3.659	8.888	-2.072	1.00	0.00
ATOM	1300	CZ	PHE	A	87	4.942	9.131	-1.624	1.00	0.00
ATOM	1301	H	PHE	A	87	-0.414	11.876	-2.875	1.00	0.00
ATOM	1302	HA	PHE	A	87	1.176	11.699	-0.398	1.00	0.00
ATOM	1303	1HB	PHE	A	87	1.921	12.409	-3.190	1.00	0.00
ATOM	1304	2HB	PHE	A	87	2.715	13.293	-1.892	1.00	0.00
ATOM	1305	HD1	PHE	A	87	4.765	12.481	-1.296	1.00	0.00
ATOM	1306	HD2	PHE	A	87	1.773	9.745	-2.591	1.00	0.00
ATOM	1307	HE1	PHE	A	87	6.344	10.618	-0.994	1.00	0.00
ATOM	1308	HE2	PHE	A	87	3.345	7.878	-2.291	1.00	0.00
ATOM	1309	HZ	PHE	A	87	5.634	8.312	-1.492	1.00	0.00
ATOM	1310	N	SER	A	88	1.258	14.347	-0.105	1.00	0.00
ATOM	1311	CA	SER	A	88	0.909	15.687	0.350	1.00	0.00
ATOM	1312	C	SER	A	88	1.684	16.745	-0.433	1.00	0.00
ATOM	1313	O	SER	A	88	2.653	16.429	-1.123	1.00	0.00
ATOM	1314	CB	SER	A	88	1.194	15.830	1.847	1.00	0.00
ATOM	1315	OG	SER	A	88	0.013	15.644	2.611	1.00	0.00
ATOM	1316	H	SER	A	88	2.111	13.954	0.177	1.00	0.00
ATOM	1317	HA	SER	A	88	-0.148	15.831	0.178	1.00	0.00
ATOM	1318	1HB	SER	A	88	1.919	15.088	2.146	1.00	0.00
ATOM	1319	2HB	SER	A	88	1.584	16.817	2.046	1.00	0.00
ATOM	1320	HG	SER	A	88	-0.638	16.303	2.358	1.00	0.00
ATOM	1321	N	PRO	A	89	1.268	18.019	-0.334	1.00	0.00
ATOM	1322	CA	PRO	A	89	1.932	19.123	-1.038	1.00	0.00
ATOM	1323	C	PRO	A	89	3.374	19.317	-0.579	1.00	0.00

ATOM 1324	O	PRO A	89	4.240	19.693	-1.368	1.00	0.00
ATOM 1325	CB	PRO A	89	1.086	20.349	-0.675	1.00	0.00
ATOM 1326	CG	PRO A	89	0.361	19.966	0.568	1.00	0.00
ATOM 1327	CD	PRO A	89	0.123	18.486	0.467	1.00	0.00
ATOM 1328	HA	PRO A	89	1.914	18.975	-2.107	1.00	0.00
ATOM 1329	1HB	PRO A	89	1.734	21.199	-0.508	1.00	0.00
ATOM 1330	2HB	PRO A	89	0.401	20.567	-1.480	1.00	0.00
ATOM 1331	1HG	PRO A	89	0.968	20.191	1.433	1.00	0.00
ATOM 1332	2HG	PRO A	89	-0.581	20.493	0.622	1.00	0.00
ATOM 1333	1HD	PRO A	89	0.128	18.036	1.448	1.00	0.00
ATOM 1334	2HD	PRO A	89	-0.808	18.286	-0.039	1.00	0.00
ATOM 1335	N	LEU A	90	3.624	19.054	0.698	1.00	0.00
ATOM 1336	CA	LEU A	90	4.961	19.197	1.261	1.00	0.00
ATOM 1337	C	LEU A	90	5.936	18.223	0.608	1.00	0.00
ATOM 1338	O	LEU A	90	7.142	18.469	0.568	1.00	0.00
ATOM 1339	CB	LEU A	90	4.929	18.966	2.773	1.00	0.00
ATOM 1340	CG	LEU A	90	4.610	20.207	3.610	1.00	0.00
ATOM 1341	CD1	LEU A	90	3.109	20.338	3.818	1.00	0.00
ATOM 1342	CD2	LEU A	90	5.332	20.146	4.948	1.00	0.00
ATOM 1343	H	LEU A	90	2.891	18.755	1.278	1.00	0.00
ATOM 1344	HA	LEU A	90	5.295	20.206	1.068	1.00	0.00
ATOM 1345	1HB	LEU A	90	4.184	18.213	2.984	1.00	0.00
ATOM 1346	2HB	LEU A	90	5.893	18.592	3.080	1.00	0.00
ATOM 1347	HG	LEU A	90	4.952	21.086	3.084	1.00	0.00
ATOM 1348	1HD1	LEU A	90	2.918	20.921	4.707	1.00	0.00
ATOM 1349	2HD1	LEU A	90	2.675	19.356	3.931	1.00	0.00
ATOM 1350	3HD1	LEU A	90	2.670	20.831	2.964	1.00	0.00

ATOM 1351	1HD2	LEU	A	90	6.241	19.574	4.841	1.00	0.00
ATOM 1352	2HD2	LEU	A	90	4.694	19.672	5.681	1.00	0.00
ATOM 1353	3HD2	LEU	A	90	5.571	21.147	5.274	1.00	0.00
ATOM 1354	N	ALA	A	91	5.409	17.113	0.096	1.00	0.00
ATOM 1355	CA	ALA	A	91	6.235	16.102	-0.554	1.00	0.00
ATOM 1356	C	ALA	A	91	7.037	16.701	-1.704	1.00	0.00
ATOM 1357	O	ALA	A	91	6.557	17.579	-2.420	1.00	0.00
ATOM 1358	CB	ALA	A	91	5.368	14.957	-1.055	1.00	0.00
ATOM 1359	H	ALA	A	91	4.442	16.972	0.158	1.00	0.00
ATOM 1360	HA	ALA	A	91	6.920	15.708	0.181	1.00	0.00
ATOM 1361	1HB	ALA	A	91	4.866	15.255	-1.963	1.00	0.00
ATOM 1362	2HB	ALA	A	91	4.633	14.707	-0.304	1.00	0.00
ATOM 1363	3HB	ALA	A	91	5.989	14.095	-1.252	1.00	0.00
ATOM 1364	N	ARG	A	92	8.264	16.217	-1.876	1.00	0.00
ATOM 1365	CA	ARG	A	92	9.135	16.702	-2.940	1.00	0.00
ATOM 1366	C	ARG	A	92	8.926	15.897	-4.221	1.00	0.00
ATOM 1367	O	ARG	A	92	7.926	15.195	-4.365	1.00	0.00
ATOM 1368	CB	ARG	A	92	10.600	16.624	-2.499	1.00	0.00
ATOM 1369	CG	ARG	A	92	11.389	17.892	-2.783	1.00	0.00
ATOM 1370	CD	ARG	A	92	12.795	17.812	-2.210	1.00	0.00
ATOM 1371	NE	ARG	A	92	13.579	19.006	-2.517	1.00	0.00
ATOM 1372	CZ	ARG	A	92	14.106	19.260	-3.712	1.00	0.00
ATOM 1373	NH1	ARG	A	92	13.935	18.408	-4.715	1.00	0.00
ATOM 1374	NH2	ARG	A	92	14.806	20.370	-3.906	1.00	0.00
ATOM 1375	H	ARG	A	92	8.590	15.518	-1.273	1.00	0.00
ATOM 1376	HA	ARG	A	92	8.881	17.733	-3.132	1.00	0.00
ATOM 1377	1HB	ARG	A	92	10.634	16.437	-1.436	1.00	0.00

ATOM 1378	2HB	ARG	A	92	11.078	15.804	-3.015	1.00	0.00
ATOM 1379	1HG	ARG	A	92	11.454	18.032	-3.852	1.00	0.00
ATOM 1380	2HG	ARG	A	92	10.876	18.732	-2.339	1.00	0.00
ATOM 1381	1HD	ARG	A	92	12.728	17.704	-1.138	1.00	0.00
ATOM 1382	2HD	ARG	A	92	13.292	16.950	-2.628	1.00	0.00
ATOM 1383	HE	ARG	A	92	13.721	19.653	-1.794	1.00	0.00
ATOM 1384	1HH1	ARG	A	92	13.408	17.569	-4.575	1.00	0.00
ATOM 1385	2HH1	ARG	A	92	14.334	18.603	-5.611	1.00	0.00
ATOM 1386	1HH2	ARG	A	92	14.937	21.015	-3.153	1.00	0.00
ATOM 1387	2HH2	ARG	A	92	15.203	20.560	-4.803	1.00	0.00
ATOM 1388	N	ARG	A	93	9.875	16.005	-5.148	1.00	0.00
ATOM 1389	CA	ARG	A	93	9.792	15.287	-6.413	1.00	0.00
ATOM 1390	C	ARG	A	93	9.911	13.782	-6.195	1.00	0.00
ATOM 1391	O	ARG	A	93	10.939	13.178	-6.501	1.00	0.00
ATOM 1392	CB	ARG	A	93	10.889	15.765	-7.367	1.00	0.00
ATOM 1393	CG	ARG	A	93	10.619	17.136	-7.967	1.00	0.00
ATOM 1394	CD	ARG	A	93	9.484	17.088	-8.977	1.00	0.00
ATOM 1395	NE	ARG	A	93	9.279	18.377	-9.632	1.00	0.00
ATOM 1396	CZ	ARG	A	93	8.165	18.711	-10.279	1.00	0.00
ATOM 1397	NH1	ARG	A	93	7.154	17.855	-10.359	1.00	0.00
ATOM 1398	NH2	ARG	A	93	8.061	19.905	-10.847	1.00	0.00
ATOM 1399	H	ARG	A	93	10.648	16.581	-4.975	1.00	0.00
ATOM 1400	HA	ARG	A	93	8.829	15.500	-6.853	1.00	0.00
ATOM 1401	1HB	ARG	A	93	11.824	15.810	-6.827	1.00	0.00
ATOM 1402	2HB	ARG	A	93	10.984	15.054	-8.175	1.00	0.00
ATOM 1403	1HG	ARG	A	93	10.353	17.819	-7.174	1.00	0.00
ATOM 1404	2HG	ARG	A	93	11.515	17.484	-8.460	1.00	0.00

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ATOM	1405	1HD	ARG	A	93	9.720	16.348	-9.728	1.00	0.00
ATOM	1406	2HD	ARG	A	93	8.576	16.805	-8.466	1.00	0.00
ATOM	1407	HE	ARG	A	93	10.010	19.029	-9.587	1.00	0.00
ATOM	1408	1HH1	ARG	A	93	7.226	16.953	-9.933	1.00	0.00
ATOM	1409	2HH1	ARG	A	93	6.320	18.113	-10.847	1.00	0.00
ATOM	1410	1HH2	ARG	A	93	8.819	20.554	-10.789	1.00	0.00
ATOM	1411	2HH2	ARG	A	93	7.223	20.156	-11.333	1.00	0.00
ATOM	1412	N	VAL	A	94	8.852	13.181	-5.663	1.00	0.00
ATOM	1413	CA	VAL	A	94	8.837	11.747	-5.402	1.00	0.00
ATOM	1414	C	VAL	A	94	8.792	10.953	-6.703	1.00	0.00
ATOM	1415	O	VAL	A	94	8.276	11.431	-7.715	1.00	0.00
ATOM	1416	CB	VAL	A	94	7.634	11.347	-4.529	1.00	0.00
ATOM	1417	CG1	VAL	A	94	7.752	9.895	-4.089	1.00	0.00
ATOM	1418	CG2	VAL	A	94	7.517	12.269	-3.324	1.00	0.00
ATOM	1419	H	VAL	A	94	8.061	13.715	-5.440	1.00	0.00
ATOM	1420	HA	VAL	A	94	9.742	11.495	-4.870	1.00	0.00
ATOM	1421	HB	VAL	A	94	6.735	11.447	-5.120	1.00	0.00
ATOM	1422	1HG1	VAL	A	94	6.894	9.629	-3.490	1.00	0.00
ATOM	1423	2HG1	VAL	A	94	8.652	9.769	-3.506	1.00	0.00
ATOM	1424	3HG1	VAL	A	94	7.796	9.258	-4.959	1.00	0.00
ATOM	1425	1HG2	VAL	A	94	8.486	12.690	-3.098	1.00	0.00
ATOM	1426	2HG2	VAL	A	94	7.162	11.708	-2.473	1.00	0.00
ATOM	1427	3HG2	VAL	A	94	6.821	13.065	-3.547	1.00	0.00
ATOM	1428	N	ASP	A	95	9.333	9.740	-6.670	1.00	0.00
ATOM	1429	CA	ASP	A	95	9.353	8.878	-7.847	1.00	0.00
ATOM	1430	C	ASP	A	95	8.677	7.542	-7.554	1.00	0.00
ATOM	1431	O	ASP	A	95	8.543	7.144	-6.398	1.00	0.00



ATOM 1432	CB	ASP	A	95	10.795	8.647	-8.309	1.00	0.00
ATOM 1433	CG	ASP	A	95	11.138	9.447	-9.551	1.00	0.00
ATOM 1434	OD1	ASP	A	95	12.077	10.267	-9.486	1.00	0.00
ATOM 1435	OD2	ASP	A	95	10.470	9.251	-10.587	1.00	0.00
ATOM 1436	H	ASP	A	95	9.727	9.417	-5.833	1.00	0.00
ATOM 1437	HA	ASP	A	95	8.809	9.380	-8.633	1.00	0.00
ATOM 1438	1HB	ASP	A	95	11.470	8.938	-7.518	1.00	0.00
ATOM 1439	2HB	ASP	A	95	10.933	7.598	-8.528	1.00	0.00
ATOM 1440	N	ARG	A	96	8.253	6.858	-8.611	1.00	0.00
ATOM 1441	CA	ARG	A	96	7.590	5.566	-8.470	1.00	0.00
ATOM 1442	C	ARG	A	96	8.494	4.564	-7.758	1.00	0.00
ATOM 1443	O	ARG	A	96	8.016	3.668	-7.062	1.00	0.00
ATOM 1444	CB	ARG	A	96	7.189	5.023	-9.843	1.00	0.00
ATOM 1445	CG	ARG	A	96	8.283	5.149	-10.890	1.00	0.00
ATOM 1446	CD	ARG	A	96	7.998	4.278	-12.102	1.00	0.00
ATOM 1447	NE	ARG	A	96	9.114	4.272	-13.046	1.00	0.00
ATOM 1448	CZ	ARG	A	96	9.063	3.708	-14.251	1.00	0.00
ATOM 1449	NH1	ARG	A	96	7.955	3.105	-14.663	1.00	0.00
ATOM 1450	NH2	ARG	A	96	10.124	3.749	-15.046	1.00	0.00
ATOM 1451	H	ARG	A	96	8.388	7.229	-9.507	1.00	0.00
ATOM 1452	HA	ARG	A	96	6.699	5.714	-7.877	1.00	0.00
ATOM 1453	1HB	ARG	A	96	6.934	3.978	-9.744	1.00	0.00
ATOM 1454	2HB	ARG	A	96	6.322	5.565	-10.192	1.00	0.00
ATOM 1455	1HG	ARG	A	96	8.347	6.180	-11.207	1.00	0.00
ATOM 1456	2HG	ARG	A	96	9.223	4.846	-10.453	1.00	0.00
ATOM 1457	1HD	ARG	A	96	7.816	3.268	-11.768	1.00	0.00
ATOM 1458	2HD	ARG	A	96	7.118	4.656	-12.602	1.00	0.00

ATOM	1459	HE	ARG	A	96	9.945	4.710	-12.767	1.00	0.00
ATOM	1460	1HH1	ARG	A	96	7.152	3.072	-14.068	1.00	0.00
ATOM	1461	2HH1	ARG	A	96	7.923	2.684	-15.569	1.00	0.00
ATOM	1462	1HH2	ARG	A	96	10.961	4.202	-14.740	1.00	0.00
ATOM	1463	2HH2	ARG	A	96	10.086	3.326	-15.951	1.00	0.00
ATOM	1464	N	VAL	A	97	9.801	4.721	-7.938	1.00	0.00
ATOM	1465	CA	VAL	A	97	10.772	3.831	-7.314	1.00	0.00
ATOM	1466	C	VAL	A	97	10.791	4.010	-5.799	1.00	0.00
ATOM	1467	O	VAL	A	97	11.095	3.075	-5.058	1.00	0.00
ATOM	1468	CB	VAL	A	97	12.190	4.074	-7.864	1.00	0.00
ATOM	1469	CG1	VAL	A	97	13.151	3.012	-7.353	1.00	0.00
ATOM	1470	CG2	VAL	A	97	12.175	4.102	-9.385	1.00	0.00
ATOM	1471	H	VAL	A	97	10.121	5.455	-8.504	1.00	0.00
ATOM	1472	HA	VAL	A	97	10.488	2.815	-7.543	1.00	0.00
ATOM	1473	HB	VAL	A	97	12.531	5.036	-7.510	1.00	0.00
ATOM	1474	1HG1	VAL	A	97	13.318	3.155	-6.295	1.00	0.00
ATOM	1475	2HG1	VAL	A	97	14.090	3.093	-7.879	1.00	0.00
ATOM	1476	3HG1	VAL	A	97	12.728	2.032	-7.520	1.00	0.00
ATOM	1477	1HG2	VAL	A	97	11.635	4.974	-9.723	1.00	0.00
ATOM	1478	2HG2	VAL	A	97	11.690	3.212	-9.757	1.00	0.00
ATOM	1479	3HG2	VAL	A	97	13.189	4.142	-9.755	1.00	0.00
ATOM	1480	N	ALA	A	98	10.466	5.217	-5.346	1.00	0.00
ATOM	1481	CA	ALA	A	98	10.449	5.518	-3.920	1.00	0.00
ATOM	1482	C	ALA	A	98	9.386	4.696	-3.196	1.00	0.00
ATOM	1483	O	ALA	A	98	9.701	3.881	-2.330	1.00	0.00
ATOM	1484	CB	ALA	A	98	10.211	7.003	-3.697	1.00	0.00
ATOM	1485	H	ALA	A	98	10.235	5.922	-5.986	1.00	0.00

ATOM	1486	HA	ALA	A	98	11.419	5.268	-3.515	1.00	0.00
ATOM	1487	1HB	ALA	A	98	11.085	7.558	-4.008	1.00	0.00
ATOM	1488	2HB	ALA	A	98	10.024	7.185	-2.649	1.00	0.00
ATOM	1489	3HB	ALA	A	98	9.358	7.322	-4.276	1.00	0.00
ATOM	1490	N	ILE	A	99	8.126	4.917	-3.557	1.00	0.00
ATOM	1491	CA	ILE	A	99	7.018	4.197	-2.942	1.00	0.00
ATOM	1492	C	ILE	A	99	7.075	2.706	-3.271	1.00	0.00
ATOM	1493	O	ILE	A	99	6.486	1.885	-2.568	1.00	0.00
ATOM	1494	CB	ILE	A	99	5.657	4.764	-3.394	1.00	0.00
ATOM	1495	CG1	ILE	A	99	5.614	6.278	-3.177	1.00	0.00
ATOM	1496	CG2	ILE	A	99	4.521	4.085	-2.643	1.00	0.00
ATOM	1497	CD1	ILE	A	99	4.734	7.005	-4.169	1.00	0.00
ATOM	1498	H	ILE	A	99	7.938	5.580	-4.255	1.00	0.00
ATOM	1499	HA	ILE	A	99	7.096	4.320	-1.871	1.00	0.00
ATOM	1500	HB	ILE	A	99	5.534	4.556	-4.446	1.00	0.00
ATOM	1501	1HG1	ILE	A	99	5.235	6.482	-2.187	1.00	0.00
ATOM	1502	2HG1	ILE	A	99	6.614	6.677	-3.264	1.00	0.00
ATOM	1503	1HG2	ILE	A	99	4.842	3.851	-1.638	1.00	0.00
ATOM	1504	2HG2	ILE	A	99	4.245	3.174	-3.154	1.00	0.00
ATOM	1505	3HG2	ILE	A	99	3.669	4.747	-2.603	1.00	0.00
ATOM	1506	1HD1	ILE	A	99	4.974	6.678	-5.170	1.00	0.00
ATOM	1507	2HD1	ILE	A	99	4.903	8.069	-4.087	1.00	0.00
ATOM	1508	3HD1	ILE	A	99	3.697	6.787	-3.958	1.00	0.00
ATOM	1509	N	TYR	A	100	7.786	2.363	-4.341	1.00	0.00
ATOM	1510	CA	TYR	A	100	7.916	0.972	-4.757	1.00	0.00
ATOM	1511	C	TYR	A	100	8.983	0.255	-3.936	1.00	0.00
ATOM	1512	O	TYR	A	100	8.786	-0.877	-3.494	1.00	0.00

ATOM	1513	CB	TYR A 100	8.266	0.893	-6.244	1.00	0.00
ATOM	1514	CG	TYR A 100	8.268	-0.516	-6.793	1.00	0.00
ATOM	1515	CD1	TYR A 100	7.083	-1.226	-6.941	1.00	0.00
ATOM	1516	CD2	TYR A 100	9.456	-1.135	-7.163	1.00	0.00
ATOM	1517	CE1	TYR A 100	7.082	-2.514	-7.442	1.00	0.00
ATOM	1518	CE2	TYR A 100	9.462	-2.422	-7.666	1.00	0.00
ATOM	1519	CZ	TYR A 100	8.273	-3.107	-7.803	1.00	0.00
ATOM	1520	OH	TYR A 100	8.275	-4.389	-8.304	1.00	0.00
ATOM	1521	H	TYR A 100	8.233	3.060	-4.863	1.00	0.00
ATOM	1522	HA	TYR A 100	6.966	0.485	-4.593	1.00	0.00
ATOM	1523	1HB	TYR A 100	7.546	1.466	-6.806	1.00	0.00
ATOM	1524	2HB	TYR A 100	9.250	1.311	-6.396	1.00	0.00
ATOM	1525	HD1	TYR A 100	6.152	-0.759	-6.657	1.00	0.00
ATOM	1526	HD2	TYR A 100	10.385	-0.597	-7.054	1.00	0.00
ATOM	1527	HE1	TYR A 100	6.150	-3.050	-7.551	1.00	0.00
ATOM	1528	HE2	TYR A 100	10.395	-2.887	-7.949	1.00	0.00
ATOM	1529	HH	TYR A 100	7.742	-4.953	-7.740	1.00	0.00
ATOM	1530	N	GLU A 101	10.117	0.921	-3.741	1.00	0.00
ATOM	1531	CA	GLU A 101	11.220	0.348	-2.978	1.00	0.00
ATOM	1532	C	GLU A 101	10.855	0.212	-1.503	1.00	0.00
ATOM	1533	O	GLU A 101	11.028	-0.850	-0.906	1.00	0.00
ATOM	1534	CB	GLU A 101	12.473	1.212	-3.128	1.00	0.00
ATOM	1535	CG	GLU A 101	13.329	0.837	-4.326	1.00	0.00
ATOM	1536	CD	GLU A 101	14.811	0.838	-4.008	1.00	0.00
ATOM	1537	OE1	GLU A 101	15.434	-0.242	-4.078	1.00	0.00
ATOM	1538	OE2	GLU A 101	15.350	1.918	-3.686	1.00	0.00
ATOM	1539	H	GLU A 101	10.215	1.818	-4.122	1.00	0.00

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ATOM 1540	HA	GLU A 101	11.423	-0.635	-3.377	1.00	0.00
ATOM 1541	1HB	GLU A 101	12.173	2.245	-3.235	1.00	0.00
ATOM 1542	2HB	GLU A 101	13.074	1.112	-2.237	1.00	0.00
ATOM 1543	1HG	GLU A 101	13.049	-0.150	-4.660	1.00	0.00
ATOM 1544	2HG	GLU A 101	13.146	1.549	-5.119	1.00	0.00
ATOM 1545	N	GLU A 102	10.352	1.296	-0.919	1.00	0.00
ATOM 1546	CA	GLU A 102	9.966	1.294	0.488	1.00	0.00
ATOM 1547	C	GLU A 102	8.905	0.234	0.763	1.00	0.00
ATOM 1548	O	GLU A 102	8.955	-0.459	1.779	1.00	0.00
ATOM 1549	CB	GLU A 102	9.445	2.673	0.897	1.00	0.00
ATOM 1550	CG	GLU A 102	8.258	3.145	0.073	1.00	0.00
ATOM 1551	CD	GLU A 102	6.928	2.776	0.701	1.00	0.00
ATOM 1552	OE1	GLU A 102	6.917	1.924	1.615	1.00	0.00
ATOM 1553	OE2	GLU A 102	5.895	3.339	0.278	1.00	0.00
ATOM 1554	H	GLU A 102	10.239	2.114	-1.445	1.00	0.00
ATOM 1555	HA	GLU A 102	10.846	1.065	1.071	1.00	0.00
ATOM 1556	1HB	GLU A 102	9.144	2.639	1.934	1.00	0.00
ATOM 1557	2HB	GLU A 102	10.241	3.394	0.787	1.00	0.00
ATOM 1558	1HG	GLU A 102	8.307	4.219	-0.022	1.00	0.00
ATOM 1559	2HG	GLU A 102	8.315	2.694	-0.907	1.00	0.00
ATOM 1560	N	PHE A 103	7.945	0.113	-0.148	1.00	0.00
ATOM 1561	CA	PHE A 103	6.872	-0.865	-0.002	1.00	0.00
ATOM 1562	C	PHE A 103	7.430	-2.283	0.039	1.00	0.00
ATOM 1563	O	PHE A 103	6.881	-3.158	0.710	1.00	0.00
ATOM 1564	CB	PHE A 103	5.873	-0.731	-1.153	1.00	0.00
ATOM 1565	CG	PHE A 103	4.616	-1.530	-0.953	1.00	0.00
ATOM 1566	CD1	PHE A 103	3.798	-1.298	0.142	1.00	0.00

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ATOM 1567	CD2	PHE A 103	4.254	-2.513	-1.859	1.00	0.00
ATOM 1568	CE1	PHE A 103	2.642	-2.031	0.326	1.00	0.00
ATOM 1569	CE2	PHE A 103	3.099	-3.251	-1.679	1.00	0.00
ATOM 1570	CZ	PHE A 103	2.291	-3.009	-0.585	1.00	0.00
ATOM 1571	H	PHE A 103	7.959	0.693	-0.937	1.00	0.00
ATOM 1572	HA	PHE A 103	6.364	-0.663	0.929	1.00	0.00
ATOM 1573	1HB	PHE A 103	5.592	0.306	-1.258	1.00	0.00
ATOM 1574	2HB	PHE A 103	6.340	-1.067	-2.066	1.00	0.00
ATOM 1575	HD1	PHE A 103	4.071	-0.533	0.854	1.00	0.00
ATOM 1576	HD2	PHE A 103	4.885	-2.703	-2.715	1.00	0.00
ATOM 1577	HE1	PHE A 103	2.012	-1.841	1.183	1.00	0.00
ATOM 1578	HE2	PHE A 103	2.827	-4.014	-2.393	1.00	0.00
ATOM 1579	HZ	PHE A 103	1.388	-3.583	-0.442	1.00	0.00
ATOM 1580	N	LEU A 104	8.525	-2.506	-0.682	1.00	0.00
ATOM 1581	CA	LEU A 104	9.158	-3.819	-0.727	1.00	0.00
ATOM 1582	C	LEU A 104	9.968	-4.078	0.538	1.00	0.00
ATOM 1583	O	LEU A 104	10.113	-5.222	0.970	1.00	0.00
ATOM 1584	CB	LEU A 104	10.063	-3.929	-1.956	1.00	0.00
ATOM 1585	CG	LEU A 104	9.335	-3.894	-3.301	1.00	0.00
ATOM 1586	CD1	LEU A 104	10.313	-3.601	-4.429	1.00	0.00
ATOM 1587	CD2	LEU A 104	8.609	-5.207	-3.549	1.00	0.00
ATOM 1588	H	LEU A 104	8.916	-1.769	-1.196	1.00	0.00
ATOM 1589	HA	LEU A 104	8.377	-4.560	-0.799	1.00	0.00
ATOM 1590	1HB	LEU A 104	10.770	-3.113	-1.930	1.00	0.00
ATOM 1591	2HB	LEU A 104	10.608	-4.859	-1.893	1.00	0.00
ATOM 1592	HG	LEU A 104	8.601	-3.101	-3.285	1.00	0.00
ATOM 1593	1HD1	LEU A 104	10.423	-2.533	-4.544	1.00	0.00

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ATOM 1594	2HD1	LEU	A	104	9.940	-4.026	-5.349	1.00	0.00
ATOM 1595	3HD1	LEU	A	104	11.273	-4.038	-4.195	1.00	0.00
ATOM 1596	1HD2	LEU	A	104	7.590	-5.125	-3.205	1.00	0.00
ATOM 1597	2HD2	LEU	A	104	9.108	-6.000	-3.013	1.00	0.00
ATOM 1598	3HD2	LEU	A	104	8.617	-5.427	-4.606	1.00	0.00
ATOM 1599	N	ARG	A	105	10.495	-3.010	1.128	1.00	0.00
ATOM 1600	CA	ARG	A	105	11.292	-3.124	2.343	1.00	0.00
ATOM 1601	C	ARG	A	105	10.417	-3.491	3.539	1.00	0.00
ATOM 1602	O	ARG	A	105	10.872	-4.149	4.475	1.00	0.00
ATOM 1603	CB	ARG	A	105	12.032	-1.812	2.616	1.00	0.00
ATOM 1604	CG	ARG	A	105	13.526	-1.993	2.838	1.00	0.00
ATOM 1605	CD	ARG	A	105	14.335	-0.970	2.057	1.00	0.00
ATOM 1606	NE	ARG	A	105	15.557	-1.549	1.502	1.00	0.00
ATOM 1607	CZ	ARG	A	105	16.247	-1.005	0.501	1.00	0.00
ATOM 1608	NH1	ARG	A	105	15.839	0.129	-0.056	1.00	0.00
ATOM 1609	NH2	ARG	A	105	17.346	-1.597	0.057	1.00	0.00
ATOM 1610	H	ARG	A	105	10.345	-2.125	0.736	1.00	0.00
ATOM 1611	HA	ARG	A	105	12.016	-3.909	2.190	1.00	0.00
ATOM 1612	1HB	ARG	A	105	11.891	-1.151	1.774	1.00	0.00
ATOM 1613	2HB	ARG	A	105	11.612	-1.350	3.499	1.00	0.00
ATOM 1614	1HG	ARG	A	105	13.740	-1.879	3.890	1.00	0.00
ATOM 1615	2HG	ARG	A	105	13.808	-2.985	2.517	1.00	0.00
ATOM 1616	1HD	ARG	A	105	13.729	-0.591	1.248	1.00	0.00
ATOM 1617	2HD	ARG	A	105	14.600	-0.159	2.718	1.00	0.00
ATOM 1618	HE	ARG	A	105	15.881	-2.386	1.895	1.00	0.00
ATOM 1619	1HH1	ARG	A	105	15.011	0.580	0.275	1.00	0.00
ATOM 1620	2HH1	ARG	A	105	16.362	0.532	-0.807	1.00	0.00

ATOM 1621	1HH2	ARG	A	105	17.658	-2.451	0.474	1.00	0.00
ATOM 1622	2HH2	ARG	A	105	17.864	-1.189	-0.695	1.00	0.00
ATOM 1623	N	MET	A	106	9.159	-3.063	3.501	1.00	0.00
ATOM 1624	CA	MET	A	106	8.221	-3.347	4.583	1.00	0.00
ATOM 1625	C	MET	A	106	7.450	-4.637	4.319	1.00	0.00
ATOM 1626	O	MET	A	106	6.951	-5.272	5.247	1.00	0.00
ATOM 1627	CB	MET	A	106	7.246	-2.185	4.761	1.00	0.00
ATOM 1628	CG	MET	A	106	6.660	-2.095	6.160	1.00	0.00
ATOM 1629	SD	MET	A	106	7.463	-0.836	7.171	1.00	0.00
ATOM 1630	CE	MET	A	106	6.824	0.659	6.420	1.00	0.00
ATOM 1631	H	MET	A	106	8.854	-2.542	2.729	1.00	0.00
ATOM 1632	HA	MET	A	106	8.792	-3.466	5.491	1.00	0.00
ATOM 1633	1HB	MET	A	106	7.762	-1.259	4.549	1.00	0.00
ATOM 1634	2HB	MET	A	106	6.432	-2.301	4.061	1.00	0.00
ATOM 1635	1HG	MET	A	106	5.611	-1.857	6.083	1.00	0.00
ATOM 1636	2HG	MET	A	106	6.776	-3.053	6.645	1.00	0.00
ATOM 1637	1HE	MET	A	106	5.930	0.969	6.941	1.00	0.00
ATOM 1638	2HE	MET	A	106	6.589	0.469	5.383	1.00	0.00
ATOM 1639	3HE	MET	A	106	7.567	1.440	6.483	1.00	0.00
ATOM 1640	N	THR	A	107	7.352	-5.019	3.048	1.00	0.00
ATOM 1641	CA	THR	A	107	6.637	-6.233	2.670	1.00	0.00
ATOM 1642	C	THR	A	107	7.593	-7.414	2.524	1.00	0.00
ATOM 1643	O	THR	A	107	7.290	-8.387	1.834	1.00	0.00
ATOM 1644	CB	THR	A	107	5.878	-6.014	1.361	1.00	0.00
ATOM 1645	OG1	THR	A	107	6.763	-5.619	0.328	1.00	0.00
ATOM 1646	CG2	THR	A	107	4.796	-4.963	1.465	1.00	0.00
ATOM 1647	H	THR	A	107	7.768	-4.473	2.349	1.00	0.00



ATOM	1648	HA	THR A 107	5.928	-6.456	3.452	1.00	0.00
ATOM	1649	HB	THR A 107	5.411	-6.944	1.069	1.00	0.00
ATOM	1650	HG1	THR A 107	6.267	-5.458	-0.478	1.00	0.00
ATOM	1651	1HG2	THR A 107	4.869	-4.465	2.422	1.00	0.00
ATOM	1652	2HG2	THR A 107	3.827	-5.433	1.379	1.00	0.00
ATOM	1653	3HG2	THR A 107	4.917	-4.240	0.673	1.00	0.00
ATOM	1654	N	HIS A 108	8.750	-7.326	3.176	1.00	0.00
ATOM	1655	CA	HIS A 108	9.747	-8.390	3.116	1.00	0.00
ATOM	1656	C	HIS A 108	10.076	-8.750	1.670	1.00	0.00
ATOM	1657	O	HIS A 108	9.770	-9.849	1.206	1.00	0.00
ATOM	1658	CB	HIS A 108	9.244	-9.628	3.863	1.00	0.00
ATOM	1659	CG	HIS A 108	8.750	-9.332	5.244	1.00	0.00
ATOM	1660	ND1	HIS A 108	7.430	-9.049	5.528	1.00	0.00
ATOM	1661	CD2	HIS A 108	9.408	-9.278	6.428	1.00	0.00
ATOM	1662	CE1	HIS A 108	7.297	-8.831	6.824	1.00	0.00
ATOM	1663	NE2	HIS A 108	8.481	-8.964	7.393	1.00	0.00
ATOM	1664	H	HIS A 108	8.938	-6.527	3.712	1.00	0.00
ATOM	1665	HA	HIS A 108	10.644	-8.031	3.598	1.00	0.00
ATOM	1666	1HB	HIS A 108	8.431	-10.069	3.307	1.00	0.00
ATOM	1667	2HB	HIS A 108	10.049	-10.344	3.942	1.00	0.00
ATOM	1668	HD1	HIS A 108	6.700	-9.011	4.876	1.00	0.00
ATOM	1669	HD2	HIS A 108	10.463	-9.448	6.583	1.00	0.00
ATOM	1670	HE1	HIS A 108	6.377	-8.586	7.333	1.00	0.00
ATOM	1671	HE2	HIS A 108	8.682	-8.771	8.332	1.00	0.00
ATOM	1672	N	ASN A 109	10.700	-7.816	0.961	1.00	0.00
ATOM	1673	CA	ASN A 109	11.070	-8.033	-0.433	1.00	0.00
ATOM	1674	C	ASN A 109	9.833	-8.297	-1.286	1.00	0.00

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ATOM 1675	O	ASN A 109	9.897	-9.017	-2.283	1.00	0.00
ATOM 1676	CB	ASN A 109	12.045	-9.205	-0.548	1.00	0.00
ATOM 1677	CG	ASN A 109	13.126	-8.958	-1.582	1.00	0.00
ATOM 1678	OD1	ASN A 109	13.827	-7.946	-1.535	1.00	0.00
ATOM 1679	ND2	ASN A 109	13.267	-9.884	-2.523	1.00	0.00
ATOM 1680	H	ASN A 109	10.916	-6.958	1.385	1.00	0.00
ATOM 1681	HA	ASN A 109	11.554	-7.136	-0.791	1.00	0.00
ATOM 1682	1HB	ASN A 109	12.518	-9.367	0.409	1.00	0.00
ATOM 1683	2HB	ASN A 109	11.499	-10.094	-0.830	1.00	0.00
ATOM 1684	1HD2	ASN A 109	12.673	-10.663	-2.499	1.00	0.00
ATOM 1685	2HD2	ASN A 109	13.960	-9.749	-3.205	1.00	0.00
ATOM 1686	N	GLY A 110	8.709	-7.710	-0.889	1.00	0.00
ATOM 1687	CA	GLY A 110	7.474	-7.896	-1.628	1.00	0.00
ATOM 1688	C	GLY A 110	6.988	-9.332	-1.595	1.00	0.00
ATOM 1689	O	GLY A 110	7.246	-10.102	-2.519	1.00	0.00
ATOM 1690	H	GLY A 110	8.717	-7.148	-0.087	1.00	0.00
ATOM 1691	1HA	GLY A 110	6.712	-7.261	-1.201	1.00	0.00
ATOM 1692	2HA	GLY A 110	7.635	-7.605	-2.656	1.00	0.00
ATOM 1693	N	THR A 111	6.285	-9.693	-0.526	1.00	0.00
ATOM 1694	CA	THR A 111	5.765	-11.047	-0.377	1.00	0.00
ATOM 1695	C	THR A 111	4.577	-11.075	0.579	1.00	0.00
ATOM 1696	O	THR A 111	3.556	-11.701	0.297	1.00	0.00
ATOM 1697	CB	THR A 111	6.863	-11.984	0.126	1.00	0.00
ATOM 1698	OG1	THR A 111	7.395	-11.518	1.354	1.00	0.00
ATOM 1699	CG2	THR A 111	8.013	-12.136	-0.845	1.00	0.00
ATOM 1700	H	THR A 111	6.113	-9.034	0.179	1.00	0.00
ATOM 1701	HA	THR A 111	5.435	-11.384	-1.349	1.00	0.00

ATOM 1702	HB	THR A 111	6.437	-12.964	0.292	1.00	0.00
ATOM 1703	HG1	THR A 111	7.354	-12.221	2.008	1.00	0.00
ATOM 1704	1HG2	THR A 111	7.626	-12.350	-1.831	1.00	0.00
ATOM 1705	2HG2	THR A 111	8.650	-12.946	-0.525	1.00	0.00
ATOM 1706	3HG2	THR A 111	8.583	-11.219	-0.874	1.00	0.00
ATOM 1707	N	GLN A 112	4.718	-10.396	1.714	1.00	0.00
ATOM 1708	CA	GLN A 112	3.656	-10.348	2.711	1.00	0.00
ATOM 1709	C	GLN A 112	3.435	-8.924	3.210	1.00	0.00
ATOM 1710	O	GLN A 112	4.290	-8.352	3.885	1.00	0.00
ATOM 1711	CB	GLN A 112	3.992	-11.266	3.888	1.00	0.00
ATOM 1712	CG	GLN A 112	2.776	-11.685	4.699	1.00	0.00
ATOM 1713	CD	GLN A 112	3.097	-12.761	5.717	1.00	0.00
ATOM 1714	OE1	GLN A 112	4.086	-13.483	5.585	1.00	0.00
ATOM 1715	NE2	GLN A 112	2.260	-12.873	6.743	1.00	0.00
ATOM 1716	H	GLN A 112	5.557	-9.918	1.884	1.00	0.00
ATOM 1717	HA	GLN A 112	2.748	-10.697	2.243	1.00	0.00
ATOM 1718	1HB	GLN A 112	4.469	-12.157	3.510	1.00	0.00
ATOM 1719	2HB	GLN A 112	4.677	-10.752	4.546	1.00	0.00
ATOM 1720	1HG	GLN A 112	2.391	-10.821	5.220	1.00	0.00
ATOM 1721	2HG	GLN A 112	2.022	-12.062	4.024	1.00	0.00
ATOM 1722	1HE2	GLN A 112	1.494	-12.265	6.784	1.00	0.00
ATOM 1723	2HE2	GLN A 112	2.445	-13.561	7.417	1.00	0.00
ATOM 1724	N	LEU A 113	2.278	-8.358	2.877	1.00	0.00
ATOM 1725	CA	LEU A 113	1.942	-7.002	3.294	1.00	0.00
ATOM 1726	C	LEU A 113	1.264	-7.010	4.661	1.00	0.00
ATOM 1727	O	LEU A 113	0.053	-7.208	4.763	1.00	0.00
ATOM 1728	CB	LEU A 113	1.029	-6.338	2.257	1.00	0.00

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ATOM 1729	CG	LEU A 113	0.617	-4.894	2.565	1.00	0.00
ATOM 1730	CD1	LEU A 113	-0.543	-4.864	3.548	1.00	0.00
ATOM 1731	CD2	LEU A 113	1.796	-4.097	3.108	1.00	0.00
ATOM 1732	H	LEU A 113	1.635	-8.867	2.338	1.00	0.00
ATOM 1733	HA	LEU A 113	2.860	-6.439	3.365	1.00	0.00
ATOM 1734	1HB	LEU A 113	1.537	-6.348	1.304	1.00	0.00
ATOM 1735	2HB	LEU A 113	0.131	-6.932	2.170	1.00	0.00
ATOM 1736	HG	LEU A 113	0.287	-4.420	1.651	1.00	0.00
ATOM 1737	1HD1	LEU A 113	-0.161	-4.894	4.557	1.00	0.00
ATOM 1738	2HD1	LEU A 113	-1.180	-5.721	3.378	1.00	0.00
ATOM 1739	3HD1	LEU A 113	-1.114	-3.958	3.404	1.00	0.00
ATOM 1740	1HD2	LEU A 113	1.760	-4.093	4.188	1.00	0.00
ATOM 1741	2HD2	LEU A 113	1.743	-3.082	2.743	1.00	0.00
ATOM 1742	3HD2	LEU A 113	2.719	-4.551	2.780	1.00	0.00
ATOM 1743	N	LEU A 114	2.055	-6.798	5.708	1.00	0.00
ATOM 1744	CA	LEU A 114	1.538	-6.782	7.073	1.00	0.00
ATOM 1745	C	LEU A 114	0.921	-8.129	7.442	1.00	0.00
ATOM 1746	O	LEU A 114	1.550	-8.946	8.114	1.00	0.00
ATOM 1747	CB	LEU A 114	0.503	-5.665	7.236	1.00	0.00
ATOM 1748	CG	LEU A 114	1.076	-4.246	7.237	1.00	0.00
ATOM 1749	CD1	LEU A 114	-0.022	-3.223	7.496	1.00	0.00
ATOM 1750	CD2	LEU A 114	2.184	-4.120	8.274	1.00	0.00
ATOM 1751	H	LEU A 114	3.012	-6.650	5.560	1.00	0.00
ATOM 1752	HA	LEU A 114	2.367	-6.588	7.736	1.00	0.00
ATOM 1753	1HB	LEU A 114	-0.210	-5.743	6.430	1.00	0.00
ATOM 1754	2HB	LEU A 114	-0.016	-5.818	8.171	1.00	0.00
ATOM 1755	HG	LEU A 114	1.502	-4.038	6.266	1.00	0.00

ATOM 1756	1HD1	LEU	A	114	0.173	-2.712	8.427	1.00	0.00
ATOM 1757	2HD1	LEU	A	114	-0.976	-3.726	7.555	1.00	0.00
ATOM 1758	3HD1	LEU	A	114	-0.042	-2.506	6.688	1.00	0.00
ATOM 1759	1HD2	LEU	A	114	2.173	-3.124	8.693	1.00	0.00
ATOM 1760	2HD2	LEU	A	114	3.139	-4.303	7.805	1.00	0.00
ATOM 1761	3HD2	LEU	A	114	2.024	-4.843	9.060	1.00	0.00
ATOM 1762	N	ASN	A	115	-0.313	-8.355	6.999	1.00	0.00
ATOM 1763	CA	ASN	A	115	-1.011	-9.604	7.283	1.00	0.00
ATOM 1764	C	ASN	A	115	-1.690	-10.145	6.028	1.00	0.00
ATOM 1765	O	ASN	A	115	-2.754	-10.760	6.103	1.00	0.00
ATOM 1766	CB	ASN	A	115	-2.047	-9.391	8.391	1.00	0.00
ATOM 1767	CG	ASN	A	115	-1.836	-10.324	9.567	1.00	0.00
ATOM 1768	OD1	ASN	A	115	-2.725	-11.094	9.931	1.00	0.00
ATOM 1769	ND2	ASN	A	115	-0.653	-10.260	10.168	1.00	0.00
ATOM 1770	H	ASN	A	115	-0.764	-7.666	6.468	1.00	0.00
ATOM 1771	HA	ASN	A	115	-0.279	-10.323	7.621	1.00	0.00
ATOM 1772	1HB	ASN	A	115	-1.981	-8.375	8.746	1.00	0.00
ATOM 1773	2HB	ASN	A	115	-3.035	-9.564	7.990	1.00	0.00
ATOM 1774	1HD2	ASN	A	115	0.007	-9.623	9.825	1.00	0.00
ATOM 1775	2HD2	ASN	A	115	-0.490	-10.852	10.932	1.00	0.00
ATOM 1776	N	PHE	A	116	-1.069	-9.912	4.877	1.00	0.00
ATOM 1777	CA	PHE	A	116	-1.615	-10.376	3.606	1.00	0.00
ATOM 1778	C	PHE	A	116	-0.497	-10.767	2.645	1.00	0.00
ATOM 1779	O	PHE	A	116	0.317	-9.931	2.253	1.00	0.00
ATOM 1780	CB	PHE	A	116	-2.487	-9.290	2.976	1.00	0.00
ATOM 1781	CG	PHE	A	116	-3.819	-9.122	3.650	1.00	0.00
ATOM 1782	CD1	PHE	A	116	-3.983	-8.193	4.666	1.00	0.00

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ATOM 1783	CD2	PHE A 116	-4.906	-9.889	3.266	1.00	0.00
ATOM 1784	CE1	PHE A 116	-5.207	-8.035	5.287	1.00	0.00
ATOM 1785	CE2	PHE A 116	-6.133	-9.736	3.884	1.00	0.00
ATOM 1786	CZ	PHE A 116	-6.284	-8.807	4.896	1.00	0.00
ATOM 1787	H	PHE A 116	-0.223	-9.416	4.881	1.00	0.00
ATOM 1788	HA	PHE A 116	-2.223	-11.246	3.805	1.00	0.00
ATOM 1789	1HB	PHE A 116	-1.967	-8.345	3.027	1.00	0.00
ATOM 1790	2HB	PHE A 116	-2.667	-9.539	1.940	1.00	0.00
ATOM 1791	HD1	PHE A 116	-3.142	-7.589	4.972	1.00	0.00
ATOM 1792	HD2	PHE A 116	-4.790	-10.615	2.476	1.00	0.00
ATOM 1793	HE1	PHE A 116	-5.322	-7.309	6.078	1.00	0.00
ATOM 1794	HE2	PHE A 116	-6.973	-10.340	3.577	1.00	0.00
ATOM 1795	HZ	PHE A 116	-7.241	-8.685	5.380	1.00	0.00
ATOM 1796	N	THR A 117	-0.464	-12.041	2.269	1.00	0.00
ATOM 1797	CA	THR A 117	0.555	-12.541	1.353	1.00	0.00
ATOM 1798	C	THR A 117	0.206	-12.198	-0.091	1.00	0.00
ATOM 1799	O	THR A 117	-0.807	-12.655	-0.621	1.00	0.00
ATOM 1800	CB	THR A 117	0.707	-14.056	1.506	1.00	0.00
ATOM 1801	OG1	THR A 117	-0.533	-14.708	1.299	1.00	0.00
ATOM 1802	CG2	THR A 117	1.222	-14.470	2.867	1.00	0.00
ATOM 1803	H	THR A 117	-1.140	-12.659	2.616	1.00	0.00
ATOM 1804	HA	THR A 117	1.491	-12.068	1.607	1.00	0.00
ATOM 1805	HB	THR A 117	1.407	-14.413	0.764	1.00	0.00
ATOM 1806	HG1	THR A 117	-0.471	-15.279	0.531	1.00	0.00
ATOM 1807	1HG2	THR A 117	2.184	-14.011	3.043	1.00	0.00
ATOM 1808	2HG2	THR A 117	1.324	-15.544	2.902	1.00	0.00
ATOM 1809	3HG2	THR A 117	0.526	-14.149	3.629	1.00	0.00

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ATOM 1810	N	LEU A 118	1.052	-11.392	-0.725	1.00	0.00
ATOM 1811	CA	LEU A 118	0.831	-10.990	-2.109	1.00	0.00
ATOM 1812	C	LEU A 118	2.079	-11.232	-2.953	1.00	0.00
ATOM 1813	O	LEU A 118	3.182	-11.368	-2.424	1.00	0.00
ATOM 1814	CB	LEU A 118	0.423	-9.517	-2.180	1.00	0.00
ATOM 1815	CG	LEU A 118	1.330	-8.550	-1.419	1.00	0.00
ATOM 1816	CD1	LEU A 118	2.442	-8.043	-2.322	1.00	0.00
ATOM 1817	CD2	LEU A 118	0.519	-7.389	-0.862	1.00	0.00
ATOM 1818	H	LEU A 118	1.843	-11.061	-0.252	1.00	0.00
ATOM 1819	HA	LEU A 118	0.027	-11.594	-2.503	1.00	0.00
ATOM 1820	1HB	LEU A 118	0.405	-9.220	-3.218	1.00	0.00
ATOM 1821	2HB	LEU A 118	-0.576	-9.424	-1.780	1.00	0.00
ATOM 1822	HG	LEU A 118	1.785	-9.069	-0.590	1.00	0.00
ATOM 1823	1HD1	LEU A 118	3.351	-7.935	-1.749	1.00	0.00
ATOM 1824	2HD1	LEU A 118	2.161	-7.085	-2.734	1.00	0.00
ATOM 1825	3HD1	LEU A 118	2.603	-8.747	-3.124	1.00	0.00
ATOM 1826	1HD2	LEU A 118	0.327	-7.556	0.188	1.00	0.00
ATOM 1827	2HD2	LEU A 118	-0.419	-7.320	-1.392	1.00	0.00
ATOM 1828	3HD2	LEU A 118	1.072	-6.469	-0.986	1.00	0.00
ATOM 1829	N	ASP A 119	1.894	-11.291	-4.268	1.00	0.00
ATOM 1830	CA	ASP A 119	3.002	-11.525	-5.187	1.00	0.00
ATOM 1831	C	ASP A 119	3.828	-10.259	-5.388	1.00	0.00
ATOM 1832	O	ASP A 119	3.337	-9.147	-5.195	1.00	0.00
ATOM 1833	CB	ASP A 119	2.475	-12.023	-6.535	1.00	0.00
ATOM 1834	CG	ASP A 119	3.407	-13.027	-7.184	1.00	0.00
ATOM 1835	OD1	ASP A 119	3.367	-14.213	-6.794	1.00	0.00
ATOM 1836	OD2	ASP A 119	4.176	-12.628	-8.084	1.00	0.00

ATOM	1837	H	ASP	A	119	0.989	-11.179	-4.628	1.00	0.00
ATOM	1838	HA	ASP	A	119	3.634	-12.287	-4.756	1.00	0.00
ATOM	1839	1HB	ASP	A	119	1.515	-12.494	-6.388	1.00	0.00
ATOM	1840	2HB	ASP	A	119	2.360	-11.182	-7.202	1.00	0.00
ATOM	1841	N	ARG	A	120	5.086	-10.438	-5.781	1.00	0.00
ATOM	1842	CA	ARG	A	120	5.985	-9.314	-6.013	1.00	0.00
ATOM	1843	C	ARG	A	120	5.873	-8.815	-7.450	1.00	0.00
ATOM	1844	O	ARG	A	120	5.748	-7.615	-7.693	1.00	0.00
ATOM	1845	CB	ARG	A	120	7.428	-9.720	-5.713	1.00	0.00
ATOM	1846	CG	ARG	A	120	8.403	-8.553	-5.720	1.00	0.00
ATOM	1847	CD	ARG	A	120	9.844	-9.032	-5.646	1.00	0.00
ATOM	1848	NE	ARG	A	120	10.718	-8.042	-5.021	1.00	0.00
ATOM	1849	CZ	ARG	A	120	11.199	-6.974	-5.653	1.00	0.00
ATOM	1850	NH1	ARG	A	120	10.896	-6.754	-6.926	1.00	0.00
ATOM	1851	NH2	ARG	A	120	11.986	-6.123	-5.008	1.00	0.00
ATOM	1852	H	ARG	A	120	5.416	-11.350	-5.920	1.00	0.00
ATOM	1853	HA	ARG	A	120	5.698	-8.517	-5.344	1.00	0.00
ATOM	1854	1HB	ARG	A	120	7.465	-10.185	-4.739	1.00	0.00
ATOM	1855	2HB	ARG	A	120	7.750	-10.434	-6.456	1.00	0.00
ATOM	1856	1HG	ARG	A	120	8.267	-7.989	-6.630	1.00	0.00
ATOM	1857	2HG	ARG	A	120	8.199	-7.921	-4.869	1.00	0.00
ATOM	1858	1HD	ARG	A	120	9.879	-9.943	-5.069	1.00	0.00
ATOM	1859	2HD	ARG	A	120	10.196	-9.228	-6.648	1.00	0.00
ATOM	1860	HE	ARG	A	120	10.958	-8.181	-4.081	1.00	0.00
ATOM	1861	1HH1	ARG	A	120	10.303	-7.392	-7.417	1.00	0.00
ATOM	1862	2HH1	ARG	A	120	11.261	-5.950	-7.395	1.00	0.00
ATOM	1863	1HH2	ARG	A	120	12.218	-6.284	-4.049	1.00	0.00



ATOM	1864	2HH2	ARG	A	120	12.348	-5.320	-5.483	1.00	0.00
ATOM	1865	N	LYS	A	121	5.919	-9.745	-8.399	1.00	0.00
ATOM	1866	CA	LYS	A	121	5.822	-9.401	-9.813	1.00	0.00
ATOM	1867	C	LYS	A	121	4.525	-8.652	-10.103	1.00	0.00
ATOM	1868	O	LYS	A	121	4.480	-7.784	-10.975	1.00	0.00
ATOM	1869	CB	LYS	A	121	5.899	-10.665	-10.673	1.00	0.00
ATOM	1870	CG	LYS	A	121	7.306	-10.996	-11.143	1.00	0.00
ATOM	1871	CD	LYS	A	121	7.560	-10.475	-12.548	1.00	0.00
ATOM	1872	CE	LYS	A	121	8.885	-10.978	-13.098	1.00	0.00
ATOM	1873	NZ	LYS	A	121	9.137	-10.484	-14.479	1.00	0.00
ATOM	1874	H	LYS	A	121	6.020	-10.686	-8.142	1.00	0.00
ATOM	1875	HA	LYS	A	121	6.656	-8.760	-10.056	1.00	0.00
ATOM	1876	1HB	LYS	A	121	5.528	-11.501	-10.098	1.00	0.00
ATOM	1877	2HB	LYS	A	121	5.273	-10.534	-11.544	1.00	0.00
ATOM	1878	1HG	LYS	A	121	8.017	-10.545	-10.469	1.00	0.00
ATOM	1879	2HG	LYS	A	121	7.432	-12.070	-11.139	1.00	0.00
ATOM	1880	1HD	LYS	A	121	6.764	-10.808	-13.196	1.00	0.00
ATOM	1881	2HD	LYS	A	121	7.578	-9.395	-12.523	1.00	0.00
ATOM	1882	1HE	LYS	A	121	9.680	-10.636	-12.453	1.00	0.00
ATOM	1883	2HE	LYS	A	121	8.869	-12.058	-13.108	1.00	0.00
ATOM	1884	1HZ	LYS	A	121	8.237	-10.250	-14.945	1.00	0.00
ATOM	1885	2HZ	LYS	A	121	9.623	-11.214	-15.038	1.00	0.00
ATOM	1886	3HZ	LYS	A	121	9.732	-9.632	-14.451	1.00	0.00
ATOM	1887	N	SER	A	122	3.474	-8.993	-9.365	1.00	0.00
ATOM	1888	CA	SER	A	122	2.177	-8.351	-9.542	1.00	0.00
ATOM	1889	C	SER	A	122	2.228	-6.894	-9.096	1.00	0.00
ATOM	1890	O	SER	A	122	1.518	-6.045	-9.635	1.00	0.00

ATOM 1891	CB	SER A 122	1.102	-9.101	-8.753	1.00	0.00
ATOM 1892	OG	SER A 122	1.355	-9.040	-7.359	1.00	0.00
ATOM 1893	H	SER A 122	3.574	-9.691	-8.685	1.00	0.00
ATOM 1894	HA	SER A 122	1.930	-8.386	-10.592	1.00	0.00
ATOM 1895	1HB	SER A 122	0.138	-8.656	-8.949	1.00	0.00
ATOM 1896	2HB	SER A 122	1.090	-10.137	-9.060	1.00	0.00
ATOM 1897	HG	SER A 122	1.039	-8.203	-7.013	1.00	0.00
ATOM 1898	N	VAL A 123	3.072	-6.613	-8.108	1.00	0.00
ATOM 1899	CA	VAL A 123	3.217	-5.258	-7.591	1.00	0.00
ATOM 1900	C	VAL A 123	3.803	-4.328	-8.648	1.00	0.00
ATOM 1901	O	VAL A 123	4.724	-4.702	-9.375	1.00	0.00
ATOM 1902	CB	VAL A 123	4.115	-5.227	-6.338	1.00	0.00
ATOM 1903	CG1	VAL A 123	4.118	-3.838	-5.716	1.00	0.00
ATOM 1904	CG2	VAL A 123	3.662	-6.270	-5.328	1.00	0.00
ATOM 1905	H	VAL A 123	3.610	-7.332	-7.720	1.00	0.00
ATOM 1906	HA	VAL A 123	2.235	-4.899	-7.315	1.00	0.00
ATOM 1907	HB	VAL A 123	5.125	-5.464	-6.640	1.00	0.00
ATOM 1908	1HG1	VAL A 123	5.094	-3.632	-5.302	1.00	0.00
ATOM 1909	2HG1	VAL A 123	3.377	-3.794	-4.932	1.00	0.00
ATOM 1910	3HG1	VAL A 123	3.885	-3.103	-6.473	1.00	0.00
ATOM 1911	1HG2	VAL A 123	4.526	-6.768	-4.912	1.00	0.00
ATOM 1912	2HG2	VAL A 123	3.030	-6.997	-5.818	1.00	0.00
ATOM 1913	3HG2	VAL A 123	3.108	-5.788	-4.535	1.00	0.00
ATOM 1914	N	PHE A 124	3.265	-3.116	-8.729	1.00	0.00
ATOM 1915	CA	PHE A 124	3.736	-2.133	-9.698	1.00	0.00
ATOM 1916	C	PHE A 124	3.109	-0.769	-9.435	1.00	0.00
ATOM 1917	O	PHE A 124	1.906	-0.664	-9.192	1.00	0.00

ATOM	1918	CB	PHE A 124	3.408	-2.594	-11.121	1.00	0.00
ATOM	1919	CG	PHE A 124	4.158	-1.842	-12.183	1.00	0.00
ATOM	1920	CD1	PHE A 124	3.907	-0.498	-12.407	1.00	0.00
ATOM	1921	CD2	PHE A 124	5.112	-2.480	-12.958	1.00	0.00
ATOM	1922	CE1	PHE A 124	4.595	0.196	-13.385	1.00	0.00
ATOM	1923	CE2	PHE A 124	5.803	-1.792	-13.937	1.00	0.00
ATOM	1924	CZ	PHE A 124	5.545	-0.452	-14.151	1.00	0.00
ATOM	1925	H	PHE A 124	2.534	-2.876	-8.122	1.00	0.00
ATOM	1926	HA	PHE A 124	4.807	-2.052	-9.594	1.00	0.00
ATOM	1927	1HB	PHE A 124	3.655	-3.640	-11.219	1.00	0.00
ATOM	1928	2HB	PHE A 124	2.352	-2.459	-11.299	1.00	0.00
ATOM	1929	HD1	PHE A 124	3.165	0.010	-11.808	1.00	0.00
ATOM	1930	HD2	PHE A 124	5.316	-3.527	-12.792	1.00	0.00
ATOM	1931	HE1	PHE A 124	4.389	1.243	-13.550	1.00	0.00
ATOM	1932	HE2	PHE A 124	6.546	-2.300	-14.535	1.00	0.00
ATOM	1933	HZ	PHE A 124	6.083	0.088	-14.916	1.00	0.00
ATOM	1934	N	VAL A 125	3.929	0.275	-9.487	1.00	0.00
ATOM	1935	CA	VAL A 125	3.452	1.632	-9.254	1.00	0.00
ATOM	1936	C	VAL A 125	3.948	2.584	-10.339	1.00	0.00
ATOM	1937	O	VAL A 125	5.149	2.696	-10.578	1.00	0.00
ATOM	1938	CB	VAL A 125	3.900	2.157	-7.874	1.00	0.00
ATOM	1939	CG1	VAL A 125	5.416	2.252	-7.801	1.00	0.00
ATOM	1940	CG2	VAL A 125	3.256	3.503	-7.580	1.00	0.00
ATOM	1941	H	VAL A 125	4.878	0.128	-9.685	1.00	0.00
ATOM	1942	HA	VAL A 125	2.372	1.611	-9.273	1.00	0.00
ATOM	1943	HB	VAL A 125	3.571	1.454	-7.122	1.00	0.00
ATOM	1944	1HG1	VAL A 125	5.855	1.372	-8.247	1.00	0.00

ATOM	1945	2HG1	VAL	A	125	5.723	2.324	-6.768	1.00	0.00
ATOM	1946	3HG1	VAL	A	125	5.748	3.130	-8.337	1.00	0.00
ATOM	1947	1HG2	VAL	A	125	2.944	3.963	-8.506	1.00	0.00
ATOM	1948	2HG2	VAL	A	125	3.971	4.143	-7.083	1.00	0.00
ATOM	1949	3HG2	VAL	A	125	2.397	3.360	-6.941	1.00	0.00
ATOM	1950	N	ASP	A	126	3.013	3.269	-10.990	1.00	0.00
ATOM	1951	CA	ASP	A	126	3.356	4.212	-12.048	1.00	0.00
ATOM	1952	C	ASP	A	126	2.998	5.638	-11.641	1.00	0.00
ATOM	1953	O	ASP	A	126	2.228	5.852	-10.705	1.00	0.00
ATOM	1954	CB	ASP	A	126	2.634	3.839	-13.346	1.00	0.00
ATOM	1955	CG	ASP	A	126	3.579	3.757	-14.529	1.00	0.00
ATOM	1956	OD1	ASP	A	126	4.520	4.576	-14.594	1.00	0.00
ATOM	1957	OD2	ASP	A	126	3.379	2.874	-15.389	1.00	0.00
ATOM	1958	H	ASP	A	126	2.071	3.137	-10.753	1.00	0.00
ATOM	1959	HA	ASP	A	126	4.421	4.155	-12.211	1.00	0.00
ATOM	1960	1HB	ASP	A	126	2.159	2.876	-13.223	1.00	0.00
ATOM	1961	2HB	ASP	A	126	1.880	4.582	-13.562	1.00	0.00
ATOM	1962	N	SER	A	127	3.560	6.611	-12.351	1.00	0.00
ATOM	1963	CA	SER	A	127	3.302	8.016	-12.063	1.00	0.00
ATOM	1964	C	SER	A	127	1.995	8.473	-12.705	1.00	0.00
ATOM	1965	O	SER	A	127	1.842	8.426	-13.926	1.00	0.00
ATOM	1966	CB	SER	A	127	4.459	8.882	-12.563	1.00	0.00
ATOM	1967	OG	SER	A	127	5.065	8.312	-13.710	1.00	0.00
ATOM	1968	H	SER	A	127	4.165	6.377	-13.086	1.00	0.00
ATOM	1969	HA	SER	A	127	3.219	8.125	-10.992	1.00	0.00
ATOM	1970	1HB	SER	A	127	4.088	9.864	-12.820	1.00	0.00
ATOM	1971	2HB	SER	A	127	5.202	8.971	-11.784	1.00	0.00

ATOM 1972	HG	SER A 127	4.386	8.049	-14.335	1.00	0.00
ATOM 1973	N	GLY A 128	1.057	8.914	-11.873	1.00	0.00
ATOM 1974	CA	GLY A 128	-0.224	9.373	-12.378	1.00	0.00
ATOM 1975	C	GLY A 128	-0.100	10.627	-13.223	1.00	0.00
ATOM 1976	O	GLY A 128	-0.372	10.597	-14.424	1.00	0.00
ATOM 1977	H	GLY A 128	1.236	8.928	-10.910	1.00	0.00
ATOM 1978	1HA	GLY A 128	-0.664	8.590	-12.976	1.00	0.00
ATOM 1979	2HA	GLY A 128	-0.875	9.578	-11.541	1.00	0.00
ATOM 1980	N	PRO A 129	0.312	11.752	-12.619	1.00	0.00
ATOM 1981	CA	PRO A 129	0.470	13.024	-13.333	1.00	0.00
ATOM 1982	C	PRO A 129	1.625	12.987	-14.328	1.00	0.00
ATOM 1983	O	PRO A 129	2.162	11.922	-14.632	1.00	0.00
ATOM 1984	CB	PRO A 129	0.760	14.028	-12.215	1.00	0.00
ATOM 1985	CG	PRO A 129	1.336	13.212	-11.111	1.00	0.00
ATOM 1986	CD	PRO A 129	0.657	11.874	-11.190	1.00	0.00
ATOM 1987	HA	PRO A 129	-0.437	13.304	-13.848	1.00	0.00
ATOM 1988	1HB	PRO A 129	1.462	14.770	-12.567	1.00	0.00
ATOM 1989	2HB	PRO A 129	-0.159	14.509	-11.912	1.00	0.00
ATOM 1990	1HG	PRO A 129	2.401	13.102	-11.252	1.00	0.00
ATOM 1991	2HG	PRO A 129	1.130	13.681	-10.160	1.00	0.00
ATOM 1992	1HD	PRO A 129	1.334	11.086	-10.891	1.00	0.00
ATOM 1993	2HD	PRO A 129	-0.232	11.863	-10.578	1.00	0.00
ATOM 1994	N	SER A 130	2.002	14.158	-14.832	1.00	0.00
ATOM 1995	CA	SER A 130	3.094	14.260	-15.794	1.00	0.00
ATOM 1996	C	SER A 130	2.791	13.452	-17.051	1.00	0.00
ATOM 1997	O	SER A 130	1.866	12.640	-17.071	1.00	0.00
ATOM 1998	CB	SER A 130	4.402	13.774	-15.164	1.00	0.00

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ATOM	1999	OG	SER A 130	4.514	14.208	-13.820	1.00	0.00
ATOM	2000	H	SER A 130	1.535	14.972	-14.551	1.00	0.00
ATOM	2001	HA	SER A 130	3.200	15.300	-16.064	1.00	0.00
ATOM	2002	1HB	SER A 130	4.430	12.695	-15.185	1.00	0.00
ATOM	2003	2HB	SER A 130	5.237	14.166	-15.728	1.00	0.00
ATOM	2004	HG	SER A 130	5.325	13.862	-13.439	1.00	0.00
ATOM	2005	N	SER A 131	3.576	13.681	-18.098	1.00	0.00
ATOM	2006	CA	SER A 131	3.393	12.974	-19.360	1.00	0.00
ATOM	2007	C	SER A 131	4.719	12.830	-20.101	1.00	0.00
ATOM	2008	O	SER A 131	5.547	13.740	-20.094	1.00	0.00
ATOM	2009	CB	SER A 131	2.382	13.713	-20.241	1.00	0.00
ATOM	2010	OG	SER A 131	2.682	15.096	-20.310	1.00	0.00
ATOM	2011	H	SER A 131	4.297	14.340	-18.020	1.00	0.00
ATOM	2012	HA	SER A 131	3.010	11.990	-19.136	1.00	0.00
ATOM	2013	1HB	SER A 131	2.409	13.301	-21.238	1.00	0.00
ATOM	2014	2HB	SER A 131	1.392	13.591	-19.827	1.00	0.00
ATOM	2015	HG	SER A 131	2.755	15.453	-19.422	1.00	0.00
ATOM	2016	N	GLY A 132	4.914	11.680	-20.737	1.00	0.00
ATOM	2017	CA	GLY A 132	6.141	11.439	-21.472	1.00	0.00
ATOM	2018	C	GLY A 132	6.275	9.997	-21.920	1.00	0.00
ATOM	2019	H	GLY A 132	4.218	10.990	-20.708	1.00	0.00
ATOM	2020	1HA	GLY A 132	6.158	12.078	-22.343	1.00	0.00
ATOM	2021	2HA	GLY A 132	6.980	11.687	-20.841	1.00	0.00
TER	2022		GLY A 132					
ENDMDL								

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ATOM 1	N	GLY A	1	-16.314	18.859	2.516	1.00	0.00
ATOM 2	CA	GLY A	1	-14.865	19.184	2.627	1.00	0.00
ATOM 3	C	GLY A	1	-14.518	20.514	1.988	1.00	0.00
ATOM 4	O	GLY A	1	-14.614	21.561	2.629	1.00	0.00
ATOM 5	1H	GLY A	1	-16.701	19.249	1.632	1.00	0.00
ATOM 6	2H	GLY A	1	-16.834	19.268	3.318	1.00	0.00
ATOM 7	3H	GLY A	1	-16.450	17.829	2.518	1.00	0.00
ATOM 8	1HA	GLY A	1	-14.594	19.216	3.671	1.00	0.00
ATOM 9	2HA	GLY A	1	-14.295	18.405	2.141	1.00	0.00
ATOM 10	N	SER A	2	-14.113	20.475	0.723	1.00	0.00
ATOM 11	CA	SER A	2	-13.750	21.687	-0.002	1.00	0.00
ATOM 12	C	SER A	2	-14.673	21.902	-1.198	1.00	0.00
ATOM 13	O	SER A	2	-15.080	23.027	-1.485	1.00	0.00
ATOM 14	CB	SER A	2	-12.297	21.609	-0.473	1.00	0.00
ATOM 15	OG	SER A	2	-11.663	22.873	-0.383	1.00	0.00
ATOM 16	H	SER A	2	-14.057	19.609	0.266	1.00	0.00
ATOM 17	HA	SER A	2	-13.856	22.522	0.673	1.00	0.00
ATOM 18	1HB	SER A	2	-11.758	20.906	0.145	1.00	0.00
ATOM 19	2HB	SER A	2	-12.270	21.278	-1.501	1.00	0.00
ATOM 20	HG	SER A	2	-12.250	23.551	-0.730	1.00	0.00
ATOM 21	N	SER A	3	-14.998	20.814	-1.892	1.00	0.00
ATOM 22	CA	SER A	3	-15.873	20.878	-3.059	1.00	0.00
ATOM 23	C	SER A	3	-15.191	21.607	-4.213	1.00	0.00
ATOM 24	O	SER A	3	-14.833	20.997	-5.220	1.00	0.00
ATOM 25	CB	SER A	3	-17.190	21.575	-2.705	1.00	0.00
ATOM 26	OG	SER A	3	-18.289	20.937	-3.332	1.00	0.00
ATOM 27	H	SER A	3	-14.641	19.946	-1.612	1.00	0.00

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ATOM 28	HA	SER A	3	-16.086	19.865	-3.367	1.00	0.00
ATOM 29	1HB	SER A	3	-17.335	21.544	-1.636	1.00	0.00
ATOM 30	2HB	SER A	3	-17.150	22.603	-3.034	1.00	0.00
ATOM 31	HG	SER A	3	-18.841	21.597	-3.759	1.00	0.00
ATOM 32	N	GLY A	4	-15.015	22.916	-4.060	1.00	0.00
ATOM 33	CA	GLY A	4	-14.377	23.706	-5.097	1.00	0.00
ATOM 34	C	GLY A	4	-13.103	24.373	-4.616	1.00	0.00
ATOM 35	O	GLY A	4	-13.108	25.551	-4.261	1.00	0.00
ATOM 36	H	GLY A	4	-15.321	23.349	-3.236	1.00	0.00
ATOM 37	1HA	GLY A	4	-14.142	23.062	-5.932	1.00	0.00
ATOM 38	2HA	GLY A	4	-15.067	24.468	-5.428	1.00	0.00
ATOM 39	N	SER A	5	-12.010	23.616	-4.606	1.00	0.00
ATOM 40	CA	SER A	5	-10.723	24.141	-4.165	1.00	0.00
ATOM 41	C	SER A	5	-9.896	24.620	-5.353	1.00	0.00
ATOM 42	O	SER A	5	-10.334	24.541	-6.501	1.00	0.00
ATOM 43	CB	SER A	5	-9.951	23.071	-3.390	1.00	0.00
ATOM 44	OG	SER A	5	-9.790	21.896	-4.166	1.00	0.00
ATOM 45	H	SER A	5	-12.071	22.684	-4.900	1.00	0.00
ATOM 46	HA	SER A	5	-10.912	24.979	-3.512	1.00	0.00
ATOM 47	1HB	SER A	5	-8.974	23.451	-3.131	1.00	0.00
ATOM 48	2HB	SER A	5	-10.492	22.821	-2.490	1.00	0.00
ATOM 49	HG	SER A	5	-9.386	22.120	-5.007	1.00	0.00
ATOM 50	N	SER A	6	-8.696	25.117	-5.070	1.00	0.00
ATOM 51	CA	SER A	6	-7.806	25.610	-6.115	1.00	0.00
ATOM 52	C	SER A	6	-6.397	25.055	-5.937	1.00	0.00
ATOM 53	O	SER A	6	-6.107	24.374	-4.953	1.00	0.00
ATOM 54	CB	SER A	6	-7.769	27.138	-6.104	1.00	0.00



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ATOM 55	OG	SER A	6	-8.742	27.680	-6.981	1.00	0.00
ATOM 56	H	SER A	6	-8.401	25.154	-4.136	1.00	0.00
ATOM 57	HA	SER A	6	-8.195	25.274	-7.065	1.00	0.00
ATOM 58	1HB	SER A	6	-7.967	27.494	-5.104	1.00	0.00
ATOM 59	2HB	SER A	6	-6.792	27.475	-6.420	1.00	0.00
ATOM 60	HG	SER A	6	-8.663	28.636	-6.996	1.00	0.00
ATOM 61	N	GLY A	7	-5.525	25.349	-6.895	1.00	0.00
ATOM 62	CA	GLY A	7	-4.156	24.872	-6.824	1.00	0.00
ATOM 63	C	GLY A	7	-4.023	23.426	-7.260	1.00	0.00
ATOM 64	O	GLY A	7	-4.415	22.513	-6.534	1.00	0.00
ATOM 65	H	GLY A	7	-5.812	25.896	-7.655	1.00	0.00
ATOM 66	1HA	GLY A	7	-3.539	25.487	-7.461	1.00	0.00
ATOM 67	2HA	GLY A	7	-3.807	24.963	-5.806	1.00	0.00
ATOM 68	N	SER A	8	-3.469	23.218	-8.450	1.00	0.00
ATOM 69	CA	SER A	8	-3.284	21.874	-8.983	1.00	0.00
ATOM 70	C	SER A	8	-1.944	21.755	-9.703	1.00	0.00
ATOM 71	O	SER A	8	-1.841	21.099	-10.741	1.00	0.00
ATOM 72	CB	SER A	8	-4.424	21.520	-9.939	1.00	0.00
ATOM 73	OG	SER A	8	-4.719	20.135	-9.891	1.00	0.00
ATOM 74	H	SER A	8	-3.176	23.988	-8.982	1.00	0.00
ATOM 75	HA	SER A	8	-3.295	21.184	-8.152	1.00	0.00
ATOM 76	1HB	SER A	8	-5.310	22.073	-9.660	1.00	0.00
ATOM 77	2HB	SER A	8	-4.140	21.781	-10.948	1.00	0.00
ATOM 78	HG	SER A	8	-4.973	19.892	-8.998	1.00	0.00
ATOM 79	N	SER A	9	-0.921	22.392	-9.146	1.00	0.00
ATOM 80	CA	SER A	9	0.413	22.358	-9.734	1.00	0.00
ATOM 81	C	SER A	9	1.366	21.529	-8.877	1.00	0.00

ATOM 82	O	SER A	9	2.292	20.905	-9.390	1.00	0.00
ATOM 83	CB	SER A	9	0.959	23.778	-9.895	1.00	0.00
ATOM 84	OG	SER A	9	0.303	24.459	-10.951	1.00	0.00
ATOM 85	H	SER A	9	-1.066	22.898	-8.320	1.00	0.00
ATOM 86	HA	SER A	9	0.334	21.900	-10.709	1.00	0.00
ATOM 87	1HB	SER A	9	0.802	24.328	-8.979	1.00	0.00
ATOM 88	2HB	SER A	9	2.016	23.734	-10.112	1.00	0.00
ATOM 89	HG	SER A	9	0.743	25.297	-11.114	1.00	0.00
ATOM 90	N	SER A	10	1.129	21.530	-7.569	1.00	0.00
ATOM 91	CA	SER A	10	1.967	20.778	-6.641	1.00	0.00
ATOM 92	C	SER A	10	1.394	19.385	-6.397	1.00	0.00
ATOM 93	O	SER A	10	0.434	18.975	-7.050	1.00	0.00
ATOM 94	CB	SER A	10	2.096	21.529	-5.314	1.00	0.00
ATOM 95	OG	SER A	10	3.405	21.406	-4.785	1.00	0.00
ATOM 96	H	SER A	10	0.375	22.048	-7.220	1.00	0.00
ATOM 97	HA	SER A	10	2.946	20.679	-7.085	1.00	0.00
ATOM 98	1HB	SER A	10	1.883	22.574	-5.473	1.00	0.00
ATOM 99	2HB	SER A	10	1.393	21.121	-4.603	1.00	0.00
ATOM 100	HG	SER A	10	3.359	21.035	-3.901	1.00	0.00
ATOM 101	N	SER A	11	1.990	18.663	-5.454	1.00	0.00
ATOM 102	CA	SER A	11	1.541	17.316	-5.123	1.00	0.00
ATOM 103	C	SER A	11	1.658	16.390	-6.329	1.00	0.00
ATOM 104	O	SER A	11	1.655	16.843	-7.474	1.00	0.00
ATOM 105	CB	SER A	11	0.093	17.345	-4.626	1.00	0.00
ATOM 106	OG	SER A	11	-0.476	16.047	-4.636	1.00	0.00
ATOM 107	H	SER A	11	2.751	19.046	-4.969	1.00	0.00
ATOM 108	HA	SER A	11	2.174	16.939	-4.333	1.00	0.00

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ATOM 109	1HB	SER A	11	0.069	17.727	-3.617	1.00	0.00
ATOM 110	2HB	SER A	11	-0.493	17.987	-5.268	1.00	0.00
ATOM 111	N	GLN A	12	1.762	15.091	-6.066	1.00	0.00
ATOM 112	CA	GLN A	12	1.880	14.103	-7.132	1.00	0.00
ATOM 113	C	GLN A	12	1.089	12.842	-6.798	1.00	0.00
ATOM 114	O	GLN A	12	0.827	12.551	-5.631	1.00	0.00
ATOM 115	CB	GLN A	12	3.350	13.749	-7.367	1.00	0.00
ATOM 116	CG	GLN A	12	4.113	13.433	-6.092	1.00	0.00
ATOM 117	CD	GLN A	12	5.574	13.830	-6.173	1.00	0.00
ATOM 118	OE1	GLN A	12	6.128	13.982	-7.261	1.00	0.00
ATOM 119	NE2	GLN A	12	6.206	14.000	-5.017	1.00	0.00
ATOM 120	H	GLN A	12	1.758	14.791	-5.134	1.00	0.00
ATOM 121	HA	GLN A	12	1.476	14.538	-8.033	1.00	0.00
ATOM 122	1HB	GLN A	12	3.401	12.886	-8.015	1.00	0.00
ATOM 123	2HB	GLN A	12	3.835	14.582	-7.855	1.00	0.00
ATOM 124	1HG	GLN A	12	3.656	13.966	-5.272	1.00	0.00
ATOM 125	2HG	GLN A	12	4.053	12.370	-5.906	1.00	0.00
ATOM 126	1HE2	GLN A	12	5.702	13.861	-4.189	1.00	0.00
ATOM 127	2HE2	GLN A	12	7.151	14.257	-5.040	1.00	0.00
ATOM 128	N	HIS A	13	0.710	12.097	-7.833	1.00	0.00
ATOM 129	CA	HIS A	13	-0.053	10.867	-7.653	1.00	0.00
ATOM 130	C	HIS A	13	0.639	9.695	-8.344	1.00	0.00
ATOM 131	O	HIS A	13	0.863	9.721	-9.555	1.00	0.00
ATOM 132	CB	HIS A	13	-1.471	11.041	-8.202	1.00	0.00
ATOM 133	CG	HIS A	13	-2.117	12.328	-7.794	1.00	0.00
ATOM 134	ND1	HIS A	13	-3.000	13.017	-8.598	1.00	0.00
ATOM 135	CD2	HIS A	13	-2.006	13.053	-6.655	1.00	0.00

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ATOM 136	CE1	HIS	A	13	-3.402	14.110	-7.974	1.00	0.00
ATOM 137	NE2	HIS	A	13	-2.814	14.154	-6.793	1.00	0.00
ATOM 138	H	HIS	A	13	0.950	12.384	-8.739	1.00	0.00
ATOM 139	HA	HIS	A	13	-0.108	10.663	-6.595	1.00	0.00
ATOM 140	1HB	HIS	A	13	-1.438	11.014	-9.281	1.00	0.00
ATOM 141	2HB	HIS	A	13	-2.090	10.230	-7.846	1.00	0.00
ATOM 142	HD1	HIS	A	13	-3.289	12.747	-9.495	1.00	0.00
ATOM 143	HD2	HIS	A	13	-1.394	12.809	-5.797	1.00	0.00
ATOM 144	HE1	HIS	A	13	-4.095	14.841	-8.361	1.00	0.00
ATOM 145	HE2	HIS	A	13	-3.006	14.810	-6.091	1.00	0.00
ATOM 146	N	PHE	A	14	0.977	8.670	-7.568	1.00	0.00
ATOM 147	CA	PHE	A	14	1.646	7.489	-8.106	1.00	0.00
ATOM 148	C	PHE	A	14	0.709	6.286	-8.111	1.00	0.00
ATOM 149	O	PHE	A	14	0.416	5.709	-7.064	1.00	0.00
ATOM 150	CB	PHE	A	14	2.899	7.172	-7.286	1.00	0.00
ATOM 151	CG	PHE	A	14	4.022	8.147	-7.501	1.00	0.00
ATOM 152	CD1	PHE	A	14	4.811	8.075	-8.638	1.00	0.00
ATOM 153	CD2	PHE	A	14	4.286	9.135	-6.567	1.00	0.00
ATOM 154	CE1	PHE	A	14	5.843	8.971	-8.839	1.00	0.00
ATOM 155	CE2	PHE	A	14	5.318	10.034	-6.762	1.00	0.00
ATOM 156	CZ	PHE	A	14	6.097	9.952	-7.900	1.00	0.00
ATOM 157	H	PHE	A	14	0.774	8.709	-6.610	1.00	0.00
ATOM 158	HA	PHE	A	14	1.938	7.708	-9.121	1.00	0.00
ATOM 159	1HB	PHE	A	14	2.647	7.183	-6.237	1.00	0.00
ATOM 160	2HB	PHE	A	14	3.257	6.188	-7.555	1.00	0.00
ATOM 161	HD1	PHE	A	14	4.612	7.309	-9.373	1.00	0.00
ATOM 162	HD2	PHE	A	14	3.678	9.200	-5.677	1.00	0.00

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ATOM 163	HE1	PHE	A	14	6.451	8.905	-9.730	1.00	0.00
ATOM 164	HE2	PHE	A	14	5.515	10.800	-6.026	1.00	0.00
ATOM 165	HZ	PHE	A	14	6.904	10.653	-8.055	1.00	0.00
ATOM 166	N	ASN	A	15	0.243	5.913	-9.300	1.00	0.00
ATOM 167	CA	ASN	A	15	-0.665	4.779	-9.451	1.00	0.00
ATOM 168	C	ASN	A	15	-0.118	3.531	-8.762	1.00	0.00
ATOM 169	O	ASN	A	15	0.874	2.951	-9.201	1.00	0.00
ATOM 170	CB	ASN	A	15	-0.908	4.490	-10.932	1.00	0.00
ATOM 171	CG	ASN	A	15	-2.061	5.297	-11.497	1.00	0.00
ATOM 172	OD1	ASN	A	15	-2.096	6.522	-11.375	1.00	0.00
ATOM 173	ND2	ASN	A	15	-3.014	4.612	-12.119	1.00	0.00
ATOM 174	H	ASN	A	15	0.515	6.415	-10.097	1.00	0.00
ATOM 175	HA	ASN	A	15	-1.603	5.045	-8.989	1.00	0.00
ATOM 176	1HB	ASN	A	15	-0.017	4.732	-11.492	1.00	0.00
ATOM 177	2HB	ASN	A	15	-1.131	3.441	-11.056	1.00	0.00
ATOM 178	1HD2	ASN	A	15	-2.920	3.639	-12.179	1.00	0.00
ATOM 179	2HD2	ASN	A	15	-3.771	5.108	-12.494	1.00	0.00
ATOM 180	N	LEU	A	16	-0.778	3.123	-7.683	1.00	0.00
ATOM 181	CA	LEU	A	16	-0.369	1.942	-6.933	1.00	0.00
ATOM 182	C	LEU	A	16	-1.172	0.723	-7.375	1.00	0.00
ATOM 183	O	LEU	A	16	-2.402	0.754	-7.395	1.00	0.00
ATOM 184	CB	LEU	A	16	-0.561	2.175	-5.433	1.00	0.00
ATOM 185	CG	LEU	A	16	0.136	1.163	-4.523	1.00	0.00
ATOM 186	CD1	LEU	A	16	1.648	1.294	-4.635	1.00	0.00
ATOM 187	CD2	LEU	A	16	-0.315	1.347	-3.081	1.00	0.00
ATOM 188	H	LEU	A	16	-1.565	3.626	-7.386	1.00	0.00
ATOM 189	HA	LEU	A	16	0.676	1.765	-7.133	1.00	0.00

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ATOM 190	1HB	LEU	A	16	-0.187	3.161	-5.194	1.00	0.00
ATOM 191	2HB	LEU	A	16	-1.619	2.149	-5.218	1.00	0.00
ATOM 192	HG	LEU	A	16	-0.136	0.164	-4.833	1.00	0.00
ATOM 193	1HD1	LEU	A	16	2.083	1.302	-3.645	1.00	0.00
ATOM 194	2HD1	LEU	A	16	1.893	2.216	-5.142	1.00	0.00
ATOM 195	3HD1	LEU	A	16	2.041	0.459	-5.194	1.00	0.00
ATOM 196	1HD2	LEU	A	16	-1.392	1.286	-3.030	1.00	0.00
ATOM 197	2HD2	LEU	A	16	0.009	2.312	-2.724	1.00	0.00
ATOM 198	3HD2	LEU	A	16	0.119	0.571	-2.467	1.00	0.00
ATOM 199	N	ASN	A	17	-0.473	-0.348	-7.736	1.00	0.00
ATOM 200	CA	ASN	A	17	-1.135	-1.568	-8.183	1.00	0.00
ATOM 201	C	ASN	A	17	-0.387	-2.812	-7.713	1.00	0.00
ATOM 202	O	ASN	A	17	0.844	-2.844	-7.696	1.00	0.00
ATOM 203	CB	ASN	A	17	-1.251	-1.577	-9.708	1.00	0.00
ATOM 204	CG	ASN	A	17	-2.066	-0.411	-10.232	1.00	0.00
ATOM 205	OD1	ASN	A	17	-1.517	0.607	-10.652	1.00	0.00
ATOM 206	ND2	ASN	A	17	-3.386	-0.555	-10.211	1.00	0.00
ATOM 207	H	ASN	A	17	0.506	-0.317	-7.705	1.00	0.00
ATOM 208	HA	ASN	A	17	-2.126	-1.578	-7.758	1.00	0.00
ATOM 209	1HB	ASN	A	17	-0.262	-1.523	-10.138	1.00	0.00
ATOM 210	2HB	ASN	A	17	-1.725	-2.496	-10.021	1.00	0.00
ATOM 211	1HD2	ASN	A	17	-3.755	-1.394	-9.862	1.00	0.00
ATOM 212	2HD2	ASN	A	17	-3.938	0.183	-10.544	1.00	0.00
ATOM 213	N	PHE	A	18	-1.146	-3.837	-7.338	1.00	0.00
ATOM 214	CA	PHE	A	18	-0.572	-5.095	-6.873	1.00	0.00
ATOM 215	C	PHE	A	18	-1.673	-6.096	-6.539	1.00	0.00
ATOM 216	O	PHE	A	18	-2.531	-5.832	-5.697	1.00	0.00

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ATOM 217	CB	PHE A	18	0.320	-4.862	-5.650	1.00	0.00
ATOM 218	CG	PHE A	18	-0.412	-4.320	-4.457	1.00	0.00
ATOM 219	CD1	PHE A	18	-0.777	-2.983	-4.399	1.00	0.00
ATOM 220	CD2	PHE A	18	-0.733	-5.145	-3.391	1.00	0.00
ATOM 221	CE1	PHE A	18	-1.447	-2.481	-3.301	1.00	0.00
ATOM 222	CE2	PHE A	18	-1.404	-4.648	-2.290	1.00	0.00
ATOM 223	CZ	PHE A	18	-1.761	-3.314	-2.244	1.00	0.00
ATOM 224	H	PHE A	18	-2.121	-3.748	-7.380	1.00	0.00
ATOM 225	HA	PHE A	18	0.030	-5.497	-7.674	1.00	0.00
ATOM 226	1HB	PHE A	18	0.772	-5.800	-5.361	1.00	0.00
ATOM 227	2HB	PHE A	18	1.099	-4.161	-5.911	1.00	0.00
ATOM 228	HD1	PHE A	18	-0.533	-2.332	-5.224	1.00	0.00
ATOM 229	HD2	PHE A	18	-0.453	-6.188	-3.424	1.00	0.00
ATOM 230	HE1	PHE A	18	-1.725	-1.437	-3.268	1.00	0.00
ATOM 231	HE2	PHE A	18	-1.648	-5.302	-1.465	1.00	0.00
ATOM 232	HZ	PHE A	18	-2.286	-2.924	-1.383	1.00	0.00
ATOM 233	N	THR A	19	-1.648	-7.242	-7.212	1.00	0.00
ATOM 234	CA	THR A	19	-2.649	-8.281	-6.996	1.00	0.00
ATOM 235	C	THR A	19	-2.400	-9.022	-5.686	1.00	0.00
ATOM 236	O	THR A	19	-1.263	-9.357	-5.355	1.00	0.00
ATOM 237	CB	THR A	19	-2.645	-9.271	-8.162	1.00	0.00
ATOM 238	OG1	THR A	19	-2.864	-8.599	-9.390	1.00	0.00
ATOM 239	CG2	THR A	19	-3.698	-10.350	-8.036	1.00	0.00
ATOM 240	H	THR A	19	-0.941	-7.390	-7.876	1.00	0.00
ATOM 241	HA	THR A	19	-3.614	-7.803	-6.946	1.00	0.00
ATOM 242	HB	THR A	19	-1.679	-9.754	-8.208	1.00	0.00
ATOM 243	HG1	THR A	19	-2.553	-9.147	-10.115	1.00	0.00

ATOM 244	1HG2	THR	A	19	-3.418	-11.034	-7.248	1.00	0.00
ATOM 245	2HG2	THR	A	19	-3.776	-10.888	-8.968	1.00	0.00
ATOM 246	3HG2	THR	A	19	-4.649	-9.899	-7.799	1.00	0.00
ATOM 247	N	ILE	A	20	-3.476	-9.279	-4.948	1.00	0.00
ATOM 248	CA	ILE	A	20	-3.382	-9.985	-3.676	1.00	0.00
ATOM 249	C	ILE	A	20	-3.897	-11.414	-3.804	1.00	0.00
ATOM 250	O	ILE	A	20	-5.062	-11.639	-4.135	1.00	0.00
ATOM 251	CB	ILE	A	20	-4.177	-9.263	-2.572	1.00	0.00
ATOM 252	CG1	ILE	A	20	-3.814	-7.778	-2.537	1.00	0.00
ATOM 253	CG2	ILE	A	20	-3.914	-9.910	-1.220	1.00	0.00
ATOM 254	CD1	ILE	A	20	-4.833	-6.923	-1.814	1.00	0.00
ATOM 255	H	ILE	A	20	-4.355	-8.987	-5.269	1.00	0.00
ATOM 256	HA	ILE	A	20	-2.342	-10.011	-3.385	1.00	0.00
ATOM 257	HB	ILE	A	20	-5.229	-9.364	-2.792	1.00	0.00
ATOM 258	1HG1	ILE	A	20	-2.866	-7.657	-2.035	1.00	0.00
ATOM 259	2HG1	ILE	A	20	-3.730	-7.411	-3.549	1.00	0.00
ATOM 260	1HG2	ILE	A	20	-4.678	-10.647	-1.019	1.00	0.00
ATOM 261	2HG2	ILE	A	20	-3.934	-9.153	-0.449	1.00	0.00
ATOM 262	3HG2	ILE	A	20	-2.946	-10.387	-1.231	1.00	0.00
ATOM 263	1HD1	ILE	A	20	-5.700	-6.788	-2.444	1.00	0.00
ATOM 264	2HD1	ILE	A	20	-4.400	-5.960	-1.587	1.00	0.00
ATOM 265	3HD1	ILE	A	20	-5.127	-7.411	-0.897	1.00	0.00
ATOM 266	N	THR	A	21	-3.022	-12.379	-3.541	1.00	0.00
ATOM 267	CA	THR	A	21	-3.387	-13.789	-3.626	1.00	0.00
ATOM 268	C	THR	A	21	-4.231	-14.210	-2.427	1.00	0.00
ATOM 269	O	THR	A	21	-4.998	-15.169	-2.504	1.00	0.00
ATOM 270	CB	THR	A	21	-2.130	-14.657	-3.711	1.00	0.00



ATOM 271	OG1	THR	A	21	-1.436	-14.654	-2.476	1.00	0.00
ATOM 272	CG2	THR	A	21	-1.163	-14.206	-4.783	1.00	0.00
ATOM 273	H	THR	A	21	-2.109	-12.138	-3.284	1.00	0.00
ATOM 274	HA	THR	A	21	-3.968	-13.926	-4.526	1.00	0.00
ATOM 275	HB	THR	A	21	-2.421	-15.672	-3.934	1.00	0.00
ATOM 276	HG1	THR	A	21	-0.649	-15.199	-2.550	1.00	0.00
ATOM 277	1HG2	THR	A	21	-1.532	-13.302	-5.244	1.00	0.00
ATOM 278	2HG2	THR	A	21	-1.068	-14.979	-5.531	1.00	0.00
ATOM 279	3HG2	THR	A	21	-0.196	-14.015	-4.340	1.00	0.00
ATOM 280	N	ASN	A	22	-4.084	-13.487	-1.319	1.00	0.00
ATOM 281	CA	ASN	A	22	-4.835	-13.789	-0.106	1.00	0.00
ATOM 282	C	ASN	A	22	-6.130	-12.982	-0.054	1.00	0.00
ATOM 283	O	ASN	A	22	-6.478	-12.410	0.980	1.00	0.00
ATOM 284	CB	ASN	A	22	-3.985	-13.494	1.131	1.00	0.00
ATOM 285	CG	ASN	A	22	-4.548	-14.129	2.387	1.00	0.00
ATOM 286	OD1	ASN	A	22	-5.518	-14.885	2.332	1.00	0.00
ATOM 287	ND2	ASN	A	22	-3.942	-13.824	3.528	1.00	0.00
ATOM 288	H	ASN	A	22	-3.457	-12.736	-1.318	1.00	0.00
ATOM 289	HA	ASN	A	22	-5.080	-14.841	-0.121	1.00	0.00
ATOM 290	1HB	ASN	A	22	-2.987	-13.876	0.973	1.00	0.00
ATOM 291	2HB	ASN	A	22	-3.936	-12.425	1.281	1.00	0.00
ATOM 292	1HD2	ASN	A	22	-3.175	-13.214	3.497	1.00	0.00
ATOM 293	2HD2	ASN	A	22	-4.286	-14.220	4.355	1.00	0.00
ATOM 294	N	LEU	A	23	-6.841	-12.943	-1.176	1.00	0.00
ATOM 295	CA	LEU	A	23	-8.097	-12.209	-1.261	1.00	0.00
ATOM 296	C	LEU	A	23	-8.919	-12.680	-2.459	1.00	0.00
ATOM 297	O	LEU	A	23	-8.794	-12.140	-3.558	1.00	0.00

ATOM 298	CB	LEU A	23	-7.827	-10.706	-1.373	1.00	0.00
ATOM 299	CG	LEU A	23	-8.936	-9.807	-0.824	1.00	0.00
ATOM 300	CD1	LEU A	23	-10.179	-9.902	-1.693	1.00	0.00
ATOM 301	CD2	LEU A	23	-9.259	-10.177	0.616	1.00	0.00
ATOM 302	H	LEU A	23	-6.513	-13.419	-1.966	1.00	0.00
ATOM 303	HA	LEU A	23	-8.655	-12.399	-0.357	1.00	0.00
ATOM 304	1HB	LEU A	23	-6.914	-10.486	-0.838	1.00	0.00
ATOM 305	2HB	LEU A	23	-7.681	-10.465	-2.414	1.00	0.00
ATOM 306	HG	LEU A	23	-8.597	-8.781	-0.838	1.00	0.00
ATOM 307	1HD1	LEU A	23	-9.899	-10.201	-2.692	1.00	0.00
ATOM 308	2HD1	LEU A	23	-10.667	-8.938	-1.730	1.00	0.00
ATOM 309	3HD1	LEU A	23	-10.855	-10.633	-1.276	1.00	0.00
ATOM 310	1HD2	LEU A	23	-10.128	-10.817	0.636	1.00	0.00
ATOM 311	2HD2	LEU A	23	-9.458	-9.280	1.182	1.00	0.00
ATOM 312	3HD2	LEU A	23	-8.419	-10.699	1.050	1.00	0.00
ATOM 313	N	PRO A	24	-9.773	-13.700	-2.262	1.00	0.00
ATOM 314	CA	PRO A	24	-10.614	-14.242	-3.335	1.00	0.00
ATOM 315	C	PRO A	24	-11.660	-13.241	-3.813	1.00	0.00
ATOM 316	O	PRO A	24	-12.424	-12.697	-3.015	1.00	0.00
ATOM 317	CB	PRO A	24	-11.289	-15.455	-2.689	1.00	0.00
ATOM 318	CG	PRO A	24	-11.249	-15.180	-1.224	1.00	0.00
ATOM 319	CD	PRO A	24	-9.985	-14.404	-0.985	1.00	0.00
ATOM 320	HA	PRO A	24	-10.019	-14.565	-4.177	1.00	0.00
ATOM 321	1HB	PRO A	24	-12.305	-15.538	-3.046	1.00	0.00
ATOM 322	2HB	PRO A	24	-10.740	-16.351	-2.936	1.00	0.00
ATOM 323	1HG	PRO A	24	-12.109	-14.593	-0.938	1.00	0.00
ATOM 324	2HG	PRO A	24	-11.227	-16.109	-0.677	1.00	0.00

ATOM 325	1HD	PRO	A	24	-10.120	-13.703	-0.175	1.00	0.00
ATOM 326	2HD	PRO	A	24	-9.164	-15.075	-0.773	1.00	0.00
ATOM 327	N	TYR	A	25	-11.689	-13.002	-5.120	1.00	0.00
ATOM 328	CA	TYR	A	25	-12.641	-12.066	-5.706	1.00	0.00
ATOM 329	C	TYR	A	25	-14.024	-12.699	-5.826	1.00	0.00
ATOM 330	O	TYR	A	25	-14.338	-13.341	-6.828	1.00	0.00
ATOM 331	CB	TYR	A	25	-12.155	-11.608	-7.082	1.00	0.00
ATOM 332	CG	TYR	A	25	-12.937	-10.442	-7.644	1.00	0.00
ATOM 333	CD1	TYR	A	25	-13.999	-10.647	-8.516	1.00	0.00
ATOM 334	CD2	TYR	A	25	-12.612	-9.135	-7.303	1.00	0.00
ATOM 335	CE1	TYR	A	25	-14.715	-9.584	-9.032	1.00	0.00
ATOM 336	CE2	TYR	A	25	-13.323	-8.067	-7.814	1.00	0.00
ATOM 337	CZ	TYR	A	25	-14.373	-8.297	-8.678	1.00	0.00
ATOM 338	OH	TYR	A	25	-15.084	-7.235	-9.190	1.00	0.00
ATOM 339	H	TYR	A	25	-11.054	-13.467	-5.704	1.00	0.00
ATOM 340	HA	TYR	A	25	-12.706	-11.208	-5.054	1.00	0.00
ATOM 341	1HB	TYR	A	25	-11.120	-11.309	-7.010	1.00	0.00
ATOM 342	2HB	TYR	A	25	-12.240	-12.431	-7.778	1.00	0.00
ATOM 343	HD1	TYR	A	25	-14.264	-11.658	-8.791	1.00	0.00
ATOM 344	HD2	TYR	A	25	-11.789	-8.958	-6.628	1.00	0.00
ATOM 345	HE1	TYR	A	25	-15.537	-9.765	-9.708	1.00	0.00
ATOM 346	HE2	TYR	A	25	-13.056	-7.057	-7.537	1.00	0.00
ATOM 347	HH	TYR	A	25	-15.833	-7.047	-8.620	1.00	0.00
ATOM 348	N	SER	A	26	-14.846	-12.510	-4.800	1.00	0.00
ATOM 349	CA	SER	A	26	-16.196	-13.062	-4.791	1.00	0.00
ATOM 350	C	SER	A	26	-17.237	-11.953	-4.915	1.00	0.00
ATOM 351	O	SER	A	26	-16.896	-10.772	-4.951	1.00	0.00

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ATOM 352	CB	SER A	26	-16.435	-13.861	-3.509	1.00	0.00
ATOM 353	OG	SER A	26	-15.885	-15.163	-3.608	1.00	0.00
ATOM 354	H	SER A	26	-14.538	-11.988	-4.030	1.00	0.00
ATOM 355	HA	SER A	26	-16.290	-13.724	-5.639	1.00	0.00
ATOM 356	1HB	SER A	26	-15.971	-13.351	-2.677	1.00	0.00
ATOM 357	2HB	SER A	26	-17.497	-13.945	-3.332	1.00	0.00
ATOM 358	HG	SER A	26	-16.112	-15.668	-2.824	1.00	0.00
ATOM 359	N	GLN A	27	-18.504	-12.345	-4.980	1.00	0.00
ATOM 360	CA	GLN A	27	-19.595	-11.384	-5.099	1.00	0.00
ATOM 361	C	GLN A	27	-19.601	-10.417	-3.919	1.00	0.00
ATOM 362	O	GLN A	27	-20.009	-9.263	-4.052	1.00	0.00
ATOM 363	CB	GLN A	27	-20.937	-12.113	-5.182	1.00	0.00
ATOM 364	CG	GLN A	27	-22.002	-11.344	-5.947	1.00	0.00
ATOM 365	CD	GLN A	27	-23.403	-11.847	-5.661	1.00	0.00
ATOM 366	OE1	GLN A	27	-23.948	-11.619	-4.582	1.00	0.00
ATOM 367	NE2	GLN A	27	-23.993	-12.536	-6.631	1.00	0.00
ATOM 368	H	GLN A	27	-18.713	-13.301	-4.946	1.00	0.00
ATOM 369	HA	GLN A	27	-19.444	-10.823	-6.009	1.00	0.00
ATOM 370	1HB	GLN A	27	-20.788	-13.064	-5.671	1.00	0.00
ATOM 371	2HB	GLN A	27	-21.302	-12.288	-4.180	1.00	0.00
ATOM 372	1HG	GLN A	27	-21.946	-10.303	-5.668	1.00	0.00
ATOM 373	2HG	GLN A	27	-21.807	-11.443	-7.005	1.00	0.00
ATOM 374	1HE2	GLN A	27	-23.498	-12.680	-7.464	1.00	0.00
ATOM 375	2HE2	GLN A	27	-24.899	-12.873	-6.473	1.00	0.00
ATOM 376	N	ASP A	28	-19.146	-10.895	-2.766	1.00	0.00
ATOM 377	CA	ASP A	28	-19.098	-10.073	-1.562	1.00	0.00
ATOM 378	C	ASP A	28	-18.197	-8.859	-1.768	1.00	0.00

ATOM 379	O	ASP	A	28	-18.414	-7.805	-1.171	1.00	0.00
ATOM 380	CB	ASP	A	28	-18.599	-10.898	-0.374	1.00	0.00
ATOM 381	CG	ASP	A	28	-19.563	-12.005	0.004	1.00	0.00
ATOM 382	OD1	ASP	A	28	-19.090	-13.096	0.387	1.00	0.00
ATOM 383	OD2	ASP	A	28	-20.788	-11.782	-0.081	1.00	0.00
ATOM 384	H	ASP	A	28	-18.833	-11.823	-2.723	1.00	0.00
ATOM 385	HA	ASP	A	28	-20.100	-9.730	-1.356	1.00	0.00
ATOM 386	1HB	ASP	A	28	-17.649	-11.344	-0.626	1.00	0.00
ATOM 387	2HB	ASP	A	28	-18.473	-10.248	0.479	1.00	0.00
ATOM 388	N	ILE	A	29	-17.185	-9.016	-2.616	1.00	0.00
ATOM 389	CA	ILE	A	29	-16.253	-7.929	-2.899	1.00	0.00
ATOM 390	C	ILE	A	29	-16.725	-7.082	-4.081	1.00	0.00
ATOM 391	O	ILE	A	29	-15.969	-6.270	-4.613	1.00	0.00
ATOM 392	CB	ILE	A	29	-14.840	-8.468	-3.200	1.00	0.00
ATOM 393	CG1	ILE	A	29	-14.418	-9.480	-2.132	1.00	0.00
ATOM 394	CG2	ILE	A	29	-13.840	-7.323	-3.274	1.00	0.00
ATOM 395	CD1	ILE	A	29	-14.388	-8.905	-0.733	1.00	0.00
ATOM 396	H	ILE	A	29	-17.062	-9.879	-3.061	1.00	0.00
ATOM 397	HA	ILE	A	29	-16.195	-7.303	-2.021	1.00	0.00
ATOM 398	HB	ILE	A	29	-14.862	-8.957	-4.161	1.00	0.00
ATOM 399	1HG1	ILE	A	29	-15.112	-10.307	-2.135	1.00	0.00
ATOM 400	2HG1	ILE	A	29	-13.428	-9.845	-2.364	1.00	0.00
ATOM 401	1HG2	ILE	A	29	-12.858	-7.684	-3.006	1.00	0.00
ATOM 402	2HG2	ILE	A	29	-14.136	-6.541	-2.590	1.00	0.00
ATOM 403	3HG2	ILE	A	29	-13.817	-6.930	-4.280	1.00	0.00
ATOM 404	1HD1	ILE	A	29	-13.504	-9.253	-0.220	1.00	0.00
ATOM 405	2HD1	ILE	A	29	-15.267	-9.225	-0.193	1.00	0.00

ATOM 406	3HD1	ILE	A	29	-14.372	-7.826	-0.787	1.00	0.00
ATOM 407	N	ALA	A	30	-17.979	-7.271	-4.485	1.00	0.00
ATOM 408	CA	ALA	A	30	-18.543	-6.518	-5.598	1.00	0.00
ATOM 409	C	ALA	A	30	-19.844	-5.827	-5.194	1.00	0.00
ATOM 410	O	ALA	A	30	-20.658	-5.469	-6.046	1.00	0.00
ATOM 411	CB	ALA	A	30	-18.779	-7.437	-6.788	1.00	0.00
ATOM 412	H	ALA	A	30	-18.538	-7.928	-4.024	1.00	0.00
ATOM 413	HA	ALA	A	30	-17.825	-5.767	-5.892	1.00	0.00
ATOM 414	1HB	ALA	A	30	-19.831	-7.671	-6.860	1.00	0.00
ATOM 415	2HB	ALA	A	30	-18.216	-8.349	-6.656	1.00	0.00
ATOM 416	3HB	ALA	A	30	-18.458	-6.943	-7.694	1.00	0.00
ATOM 417	N	GLN	A	31	-20.032	-5.643	-3.890	1.00	0.00
ATOM 418	CA	GLN	A	31	-21.232	-4.996	-3.372	1.00	0.00
ATOM 419	C	GLN	A	31	-20.975	-4.418	-1.980	1.00	0.00
ATOM 420	O	GLN	A	31	-20.830	-5.163	-1.011	1.00	0.00
ATOM 421	CB	GLN	A	31	-22.389	-5.995	-3.316	1.00	0.00
ATOM 422	CG	GLN	A	31	-23.270	-5.977	-4.556	1.00	0.00
ATOM 423	CD	GLN	A	31	-24.628	-5.352	-4.301	1.00	0.00
ATOM 424	OE1	GLN	A	31	-25.049	-5.200	-3.154	1.00	0.00
ATOM 425	NE2	GLN	A	31	-25.322	-4.987	-5.372	1.00	0.00
ATOM 426	H	GLN	A	31	-19.348	-5.950	-3.260	1.00	0.00
ATOM 427	HA	GLN	A	31	-21.492	-4.193	-4.045	1.00	0.00
ATOM 428	1HB	GLN	A	31	-21.985	-6.990	-3.202	1.00	0.00
ATOM 429	2HB	GLN	A	31	-23.006	-5.766	-2.459	1.00	0.00
ATOM 430	1HG	GLN	A	31	-22.771	-5.411	-5.328	1.00	0.00
ATOM 431	2HG	GLN	A	31	-23.415	-6.993	-4.892	1.00	0.00
ATOM 432	1HE2	GLN	A	31	-24.924	-5.139	-6.255	1.00	0.00

ATOM 433	2HE2	GLN	A	31	-26.203	-4.580	-5.237	1.00	0.00
ATOM 434	N	PRO	A	32	-20.911	-3.079	-1.859	1.00	0.00
ATOM 435	CA	PRO	A	32	-20.667	-2.416	-0.573	1.00	0.00
ATOM 436	C	PRO	A	32	-21.664	-2.838	0.501	1.00	0.00
ATOM 437	O	PRO	A	32	-21.393	-2.710	1.695	1.00	0.00
ATOM 438	CB	PRO	A	32	-20.823	-0.928	-0.896	1.00	0.00
ATOM 439	CG	PRO	A	32	-20.568	-0.824	-2.360	1.00	0.00
ATOM 440	CD	PRO	A	32	-21.069	-2.108	-2.958	1.00	0.00
ATOM 441	HA	PRO	A	32	-19.664	-2.606	-0.220	1.00	0.00
ATOM 442	1HB	PRO	A	32	-21.823	-0.605	-0.644	1.00	0.00
ATOM 443	2HB	PRO	A	32	-20.102	-0.356	-0.330	1.00	0.00
ATOM 444	1HG	PRO	A	32	-21.110	0.016	-2.768	1.00	0.00
ATOM 445	2HG	PRO	A	32	-19.509	-0.714	-2.542	1.00	0.00
ATOM 446	1HD	PRO	A	32	-22.106	-2.013	-3.243	1.00	0.00
ATOM 447	2HD	PRO	A	32	-20.465	-2.389	-3.809	1.00	0.00
ATOM 448	N	SER	A	33	-22.817	-3.344	0.073	1.00	0.00
ATOM 449	CA	SER	A	33	-23.849	-3.785	1.003	1.00	0.00
ATOM 450	C	SER	A	33	-23.315	-4.869	1.937	1.00	0.00
ATOM 451	O	SER	A	33	-23.779	-5.010	3.068	1.00	0.00
ATOM 452	CB	SER	A	33	-25.066	-4.310	0.238	1.00	0.00
ATOM 453	OG	SER	A	33	-26.126	-4.629	1.122	1.00	0.00
ATOM 454	H	SER	A	33	-22.977	-3.424	-0.890	1.00	0.00
ATOM 455	HA	SER	A	33	-24.148	-2.933	1.595	1.00	0.00
ATOM 456	1HB	SER	A	33	-25.407	-3.553	-0.453	1.00	0.00
ATOM 457	2HB	SER	A	33	-24.788	-5.198	-0.309	1.00	0.00
ATOM 458	HG	SER	A	33	-26.325	-3.867	1.672	1.00	0.00
ATOM 459	N	THR	A	34	-22.338	-5.632	1.456	1.00	0.00

ATOM 460	CA	THR A	34	-21.744	-6.702	2.249	1.00	0.00
ATOM 461	C	THR A	34	-20.610	-6.170	3.121	1.00	0.00
ATOM 462	O	THR A	34	-20.119	-5.062	2.909	1.00	0.00
ATOM 463	CB	THR A	34	-21.222	-7.813	1.337	1.00	0.00
ATOM 464	OG1	THR A	34	-20.040	-7.404	0.672	1.00	0.00
ATOM 465	CG2	THR A	34	-22.219	-8.237	0.280	1.00	0.00
ATOM 466	H	THR A	34	-22.010	-5.472	0.547	1.00	0.00
ATOM 467	HA	THR A	34	-22.513	-7.107	2.890	1.00	0.00
ATOM 468	HB	THR A	34	-20.990	-8.680	1.938	1.00	0.00
ATOM 469	HG1	THR A	34	-20.172	-6.533	0.291	1.00	0.00
ATOM 470	1HG2	THR A	34	-23.015	-7.508	0.222	1.00	0.00
ATOM 471	2HG2	THR A	34	-22.632	-9.200	0.540	1.00	0.00
ATOM 472	3HG2	THR A	34	-21.722	-8.304	-0.678	1.00	0.00
ATOM 473	N	THR A	35	-20.201	-6.967	4.102	1.00	0.00
ATOM 474	CA	THR A	35	-19.126	-6.577	5.009	1.00	0.00
ATOM 475	C	THR A	35	-17.759	-6.867	4.397	1.00	0.00
ATOM 476	O	THR A	35	-16.783	-6.170	4.677	1.00	0.00
ATOM 477	CB	THR A	35	-19.265	-7.312	6.343	1.00	0.00
ATOM 478	OG1	THR A	35	-20.622	-7.361	6.749	1.00	0.00
ATOM 479	CG2	THR A	35	-18.473	-6.674	7.463	1.00	0.00
ATOM 480	H	THR A	35	-20.633	-7.839	4.222	1.00	0.00
ATOM 481	HA	THR A	35	-19.211	-5.515	5.184	1.00	0.00
ATOM 482	HB	THR A	35	-18.911	-8.326	6.222	1.00	0.00
ATOM 483	HG1	THR A	35	-20.919	-6.477	6.977	1.00	0.00
ATOM 484	1HG2	THR A	35	-18.152	-5.688	7.161	1.00	0.00
ATOM 485	2HG2	THR A	35	-17.609	-7.283	7.683	1.00	0.00
ATOM 486	3HG2	THR A	35	-19.093	-6.597	8.343	1.00	0.00



ATOM 487	N	LYS A	36	-17.694	-7.901	3.564	1.00	0.00
ATOM 488	CA	LYS A	36	-16.444	-8.284	2.916	1.00	0.00
ATOM 489	C	LYS A	36	-15.872	-7.129	2.099	1.00	0.00
ATOM 490	O	LYS A	36	-14.659	-6.920	2.067	1.00	0.00
ATOM 491	CB	LYS A	36	-16.665	-9.501	2.015	1.00	0.00
ATOM 492	CG	LYS A	36	-15.479	-10.450	1.974	1.00	0.00
ATOM 493	CD	LYS A	36	-15.612	-11.553	3.012	1.00	0.00
ATOM 494	CE	LYS A	36	-14.253	-12.091	3.433	1.00	0.00
ATOM 495	NZ	LYS A	36	-14.220	-13.579	3.435	1.00	0.00
ATOM 496	H	LYS A	36	-18.505	-8.420	3.382	1.00	0.00
ATOM 497	HA	LYS A	36	-15.737	-8.545	3.689	1.00	0.00
ATOM 498	1HB	LYS A	36	-17.524	-10.047	2.374	1.00	0.00
ATOM 499	2HB	LYS A	36	-16.860	-9.159	1.009	1.00	0.00
ATOM 500	1HG	LYS A	36	-15.423	-10.899	0.993	1.00	0.00
ATOM 501	2HG	LYS A	36	-14.576	-9.891	2.168	1.00	0.00
ATOM 502	1HD	LYS A	36	-16.114	-11.157	3.881	1.00	0.00
ATOM 503	2HD	LYS A	36	-16.194	-12.361	2.593	1.00	0.00
ATOM 504	1HE	LYS A	36	-13.505	-11.725	2.746	1.00	0.00
ATOM 505	2HE	LYS A	36	-14.031	-11.733	4.428	1.00	0.00
ATOM 506	1HZ	LYS A	36	-15.183	-13.958	3.541	1.00	0.00
ATOM 507	2HZ	LYS A	36	-13.635	-13.924	4.222	1.00	0.00
ATOM 508	3HZ	LYS A	36	-13.819	-13.930	2.541	1.00	0.00
ATOM 509	N	TYR A	37	-16.752	-6.385	1.438	1.00	0.00
ATOM 510	CA	TYR A	37	-16.333	-5.252	0.619	1.00	0.00
ATOM 511	C	TYR A	37	-15.831	-4.106	1.491	1.00	0.00
ATOM 512	O	TYR A	37	-14.777	-3.527	1.226	1.00	0.00
ATOM 513	CB	TYR A	37	-17.493	-4.774	-0.256	1.00	0.00

ATOM 514	CG	TYR A	37	-17.144	-3.596	-1.139	1.00	0.00
ATOM 515	CD1	TYR A	37	-16.678	-3.786	-2.434	1.00	0.00
ATOM 516	CD2	TYR A	37	-17.282	-2.294	-0.676	1.00	0.00
ATOM 517	CE1	TYR A	37	-16.360	-2.711	-3.242	1.00	0.00
ATOM 518	CE2	TYR A	37	-16.967	-1.215	-1.478	1.00	0.00
ATOM 519	CZ	TYR A	37	-16.506	-1.427	-2.760	1.00	0.00
ATOM 520	OH	TYR A	37	-16.191	-0.355	-3.562	1.00	0.00
ATOM 521	H	TYR A	37	-17.705	-6.602	1.501	1.00	0.00
ATOM 522	HA	TYR A	37	-15.526	-5.585	-0.017	1.00	0.00
ATOM 523	1HB	TYR A	37	-17.808	-5.585	-0.897	1.00	0.00
ATOM 524	2HB	TYR A	37	-18.316	-4.483	0.378	1.00	0.00
ATOM 525	HD1	TYR A	37	-16.565	-4.793	-2.808	1.00	0.00
ATOM 526	HD2	TYR A	37	-17.642	-2.129	0.329	1.00	0.00
ATOM 527	HE1	TYR A	37	-15.999	-2.879	-4.246	1.00	0.00
ATOM 528	HE2	TYR A	37	-17.082	-0.209	-1.100	1.00	0.00
ATOM 529	HH	TYR A	37	-16.674	-0.421	-4.389	1.00	0.00
ATOM 530	N	GLN A	38	-16.592	-3.782	2.531	1.00	0.00
ATOM 531	CA	GLN A	38	-16.224	-2.702	3.441	1.00	0.00
ATOM 532	C	GLN A	38	-15.021	-3.094	4.294	1.00	0.00
ATOM 533	O	GLN A	38	-14.215	-2.245	4.676	1.00	0.00
ATOM 534	CB	GLN A	38	-17.405	-2.342	4.343	1.00	0.00
ATOM 535	CG	GLN A	38	-18.628	-1.860	3.580	1.00	0.00
ATOM 536	CD	GLN A	38	-19.863	-1.768	4.454	1.00	0.00
ATOM 537	OE1	GLN A	38	-19.860	-2.215	5.601	1.00	0.00
ATOM 538	NE2	GLN A	38	-20.928	-1.185	3.915	1.00	0.00
ATOM 539	H	GLN A	38	-17.421	-4.278	2.690	1.00	0.00
ATOM 540	HA	GLN A	38	-15.962	-1.842	2.845	1.00	0.00

ATOM 541	1HB	GLN	A	38	-17.686	-3.214	4.915	1.00	0.00
ATOM 542	2HB	GLN	A	38	-17.100	-1.559	5.021	1.00	0.00
ATOM 543	1HG	GLN	A	38	-18.420	-0.881	3.173	1.00	0.00
ATOM 544	2HG	GLN	A	38	-18.828	-2.549	2.771	1.00	0.00
ATOM 545	1HE2	GLN	A	38	-20.858	-0.852	2.997	1.00	0.00
ATOM 546	2HE2	GLN	A	38	-21.740	-1.112	4.460	1.00	0.00
ATOM 547	N	GLN	A	39	-14.907	-4.384	4.591	1.00	0.00
ATOM 548	CA	GLN	A	39	-13.804	-4.887	5.400	1.00	0.00
ATOM 549	C	GLN	A	39	-12.493	-4.854	4.620	1.00	0.00
ATOM 550	O	GLN	A	39	-11.522	-4.228	5.045	1.00	0.00
ATOM 551	CB	GLN	A	39	-14.096	-6.314	5.868	1.00	0.00
ATOM 552	CG	GLN	A	39	-14.875	-6.381	7.171	1.00	0.00
ATOM 553	CD	GLN	A	39	-14.473	-7.562	8.032	1.00	0.00
ATOM 554	OE1	GLN	A	39	-13.870	-8.521	7.547	1.00	0.00
ATOM 555	NE2	GLN	A	39	-14.806	-7.500	9.315	1.00	0.00
ATOM 556	H	GLN	A	39	-15.581	-5.013	4.259	1.00	0.00
ATOM 557	HA	GLN	A	39	-13.709	-4.247	6.265	1.00	0.00
ATOM 558	1HB	GLN	A	39	-14.668	-6.821	5.105	1.00	0.00
ATOM 559	2HB	GLN	A	39	-13.159	-6.834	6.007	1.00	0.00
ATOM 560	1HG	GLN	A	39	-14.698	-5.472	7.728	1.00	0.00
ATOM 561	2HG	GLN	A	39	-15.928	-6.462	6.942	1.00	0.00
ATOM 562	1HE2	GLN	A	39	-15.286	-6.706	9.631	1.00	0.00
ATOM 563	2HE2	GLN	A	39	-14.559	-8.251	9.894	1.00	0.00
ATOM 564	N	THR	A	40	-12.473	-5.532	3.477	1.00	0.00
ATOM 565	CA	THR	A	40	-11.281	-5.583	2.637	1.00	0.00
ATOM 566	C	THR	A	40	-10.832	-4.181	2.237	1.00	0.00
ATOM 567	O	THR	A	40	-9.639	-3.873	2.250	1.00	0.00

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ATOM 568	CB	THR A	40	-11.549	-6.420	1.385	1.00	0.00
ATOM 569	OG1	THR A	40	-12.141	-7.660	1.729	1.00	0.00
ATOM 570	CG2	THR A	40	-10.301	-6.713	0.582	1.00	0.00
ATOM 571	H	THR A	40	-13.279	-6.012	3.192	1.00	0.00
ATOM 572	HA	THR A	40	-10.494	-6.050	3.209	1.00	0.00
ATOM 573	HB	THR A	40	-12.236	-5.882	0.746	1.00	0.00
ATOM 574	HG1	THR A	40	-13.063	-7.660	1.462	1.00	0.00
ATOM 575	1HG2	THR A	40	-10.253	-6.045	-0.265	1.00	0.00
ATOM 576	2HG2	THR A	40	-10.329	-7.735	0.233	1.00	0.00
ATOM 577	3HG2	THR A	40	-9.431	-6.568	1.204	1.00	0.00
ATOM 578	N	LYS A	41	-11.792	-3.334	1.881	1.00	0.00
ATOM 579	CA	LYS A	41	-11.493	-1.965	1.477	1.00	0.00
ATOM 580	C	LYS A	41	-10.795	-1.204	2.600	1.00	0.00
ATOM 581	O	LYS A	41	-9.749	-0.589	2.390	1.00	0.00
ATOM 582	CB	LYS A	41	-12.777	-1.238	1.074	1.00	0.00
ATOM 583	CG	LYS A	41	-12.532	0.006	0.235	1.00	0.00
ATOM 584	CD	LYS A	41	-13.831	0.732	-0.077	1.00	0.00
ATOM 585	CE	LYS A	41	-13.646	1.756	-1.187	1.00	0.00
ATOM 586	NZ	LYS A	41	-14.138	1.249	-2.497	1.00	0.00
ATOM 587	H	LYS A	41	-12.724	-3.637	1.890	1.00	0.00
ATOM 588	HA	LYS A	41	-10.832	-2.009	0.624	1.00	0.00
ATOM 589	1HB	LYS A	41	-13.396	-1.914	0.505	1.00	0.00
ATOM 590	2HB	LYS A	41	-13.307	-0.943	1.968	1.00	0.00
ATOM 591	1HG	LYS A	41	-11.879	0.673	0.778	1.00	0.00
ATOM 592	2HG	LYS A	41	-12.062	-0.285	-0.693	1.00	0.00
ATOM 593	1HD	LYS A	41	-14.571	0.010	-0.387	1.00	0.00
ATOM 594	2HD	LYS A	41	-14.171	1.239	0.815	1.00	0.00

ATOM 595	1HE	LYS	A	41	-14.192	2.650	-0.928	1.00	0.00
ATOM 596	2HE	LYS	A	41	-12.595	1.989	-1.272	1.00	0.00
ATOM 597	1HZ	LYS	A	41	-15.103	0.873	-2.395	1.00	0.00
ATOM 598	2HZ	LYS	A	41	-13.517	0.491	-2.844	1.00	0.00
ATOM 599	3HZ	LYS	A	41	-14.150	2.020	-3.196	1.00	0.00
ATOM 600	N	ARG	A	42	-11.379	-1.250	3.792	1.00	0.00
ATOM 601	CA	ARG	A	42	-10.813	-0.563	4.948	1.00	0.00
ATOM 602	C	ARG	A	42	-9.494	-1.202	5.370	1.00	0.00
ATOM 603	O	ARG	A	42	-8.571	-0.514	5.807	1.00	0.00
ATOM 604	CB	ARG	A	42	-11.804	-0.585	6.115	1.00	0.00
ATOM 605	CG	ARG	A	42	-12.003	0.774	6.768	1.00	0.00
ATOM 606	CD	ARG	A	42	-13.455	0.999	7.164	1.00	0.00
ATOM 607	NE	ARG	A	42	-13.653	0.881	8.606	1.00	0.00
ATOM 608	CZ	ARG	A	42	-13.365	1.847	9.476	1.00	0.00
ATOM 609	NH1	ARG	A	42	-12.864	3.001	9.054	1.00	0.00
ATOM 610	NH2	ARG	A	42	-13.577	1.657	10.771	1.00	0.00
ATOM 611	H	ARG	A	42	-12.212	-1.756	3.897	1.00	0.00
ATOM 612	HA	ARG	A	42	-10.628	0.462	4.664	1.00	0.00
ATOM 613	1HB	ARG	A	42	-12.761	-0.928	5.752	1.00	0.00
ATOM 614	2HB	ARG	A	42	-11.445	-1.272	6.866	1.00	0.00
ATOM 615	1HG	ARG	A	42	-11.387	0.830	7.654	1.00	0.00
ATOM 616	2HG	ARG	A	42	-11.705	1.545	6.072	1.00	0.00
ATOM 617	1HD	ARG	A	42	-13.751	1.988	6.849	1.00	0.00
ATOM 618	2HD	ARG	A	42	-14.069	0.263	6.664	1.00	0.00
ATOM 619	HE	ARG	A	42	-14.022	0.038	8.945	1.00	0.00
ATOM 620	1HH1	ARG	A	42	-12.701	3.150	8.079	1.00	0.00
ATOM 621	2HH1	ARG	A	42	-12.650	3.723	9.712	1.00	0.00

ATOM 622	1HH2	ARG	A	42	-13.955	0.789	11.094	1.00	0.00
ATOM 623	2HH2	ARG	A	42	-13.361	2.382	11.425	1.00	0.00
ATOM 624	N	SER	A	43	-9.411	-2.522	5.238	1.00	0.00
ATOM 625	CA	SER	A	43	-8.204	-3.253	5.607	1.00	0.00
ATOM 626	C	SER	A	43	-7.010	-2.788	4.778	1.00	0.00
ATOM 627	O	SER	A	43	-5.941	-2.503	5.319	1.00	0.00
ATOM 628	CB	SER	A	43	-8.415	-4.755	5.418	1.00	0.00
ATOM 629	OG	SER	A	43	-7.712	-5.497	6.400	1.00	0.00
ATOM 630	H	SER	A	43	-10.180	-3.016	4.884	1.00	0.00
ATOM 631	HA	SER	A	43	-8.003	-3.055	6.648	1.00	0.00
ATOM 632	1HB	SER	A	43	-9.467	-4.983	5.499	1.00	0.00
ATOM 633	2HB	SER	A	43	-8.058	-5.048	4.441	1.00	0.00
ATOM 634	HG	SER	A	43	-6.828	-5.136	6.504	1.00	0.00
ATOM 635	N	ILE	A	44	-7.199	-2.714	3.465	1.00	0.00
ATOM 636	CA	ILE	A	44	-6.136	-2.284	2.564	1.00	0.00
ATOM 637	C	ILE	A	44	-5.822	-0.803	2.750	1.00	0.00
ATOM 638	O	ILE	A	44	-4.663	-0.420	2.917	1.00	0.00
ATOM 639	CB	ILE	A	44	-6.509	-2.539	1.090	1.00	0.00
ATOM 640	CG1	ILE	A	44	-6.951	-3.991	0.896	1.00	0.00
ATOM 641	CG2	ILE	A	44	-5.335	-2.212	0.180	1.00	0.00
ATOM 642	CD1	ILE	A	44	-7.848	-4.193	-0.306	1.00	0.00
ATOM 643	H	ILE	A	44	-8.073	-2.954	3.093	1.00	0.00
ATOM 644	HA	ILE	A	44	-5.251	-2.860	2.794	1.00	0.00
ATOM 645	HB	ILE	A	44	-7.327	-1.883	0.831	1.00	0.00
ATOM 646	1HG1	ILE	A	44	-6.078	-4.611	0.765	1.00	0.00
ATOM 647	2HG1	ILE	A	44	-7.491	-4.316	1.774	1.00	0.00
ATOM 648	1HG2	ILE	A	44	-5.326	-2.896	-0.657	1.00	0.00

ATOM 649	2HG2	ILE	A	44	-4.412	-2.308	0.733	1.00	0.00
ATOM 650	3HG2	ILE	A	44	-5.433	-1.200	-0.185	1.00	0.00
ATOM 651	1HD1	ILE	A	44	-8.308	-3.254	-0.575	1.00	0.00
ATOM 652	2HD1	ILE	A	44	-8.616	-4.914	-0.065	1.00	0.00
ATOM 653	3HD1	ILE	A	44	-7.261	-4.557	-1.136	1.00	0.00
ATOM 654	N	GLU	A	45	-6.860	0.025	2.722	1.00	0.00
ATOM 655	CA	GLU	A	45	-6.694	1.465	2.887	1.00	0.00
ATOM 656	C	GLU	A	45	-6.059	1.787	4.237	1.00	0.00
ATOM 657	O	GLU	A	45	-5.235	2.695	4.345	1.00	0.00
ATOM 658	CB	GLU	A	45	-8.045	2.174	2.758	1.00	0.00
ATOM 659	CG	GLU	A	45	-8.126	3.113	1.566	1.00	0.00
ATOM 660	CD	GLU	A	45	-7.242	4.334	1.723	1.00	0.00
ATOM 661	OE1	GLU	A	45	-6.078	4.286	1.271	1.00	0.00
ATOM 662	OE2	GLU	A	45	-7.712	5.337	2.299	1.00	0.00
ATOM 663	H	GLU	A	45	-7.760	-0.339	2.585	1.00	0.00
ATOM 664	HA	GLU	A	45	-6.038	1.814	2.104	1.00	0.00
ATOM 665	1HB	GLU	A	45	-8.820	1.430	2.656	1.00	0.00
ATOM 666	2HB	GLU	A	45	-8.226	2.749	3.655	1.00	0.00
ATOM 667	1HG	GLU	A	45	-7.819	2.577	0.680	1.00	0.00
ATOM 668	2HG	GLU	A	45	-9.150	3.440	1.451	1.00	0.00
ATOM 669	N	ASN	A	46	-6.449	1.038	5.263	1.00	0.00
ATOM 670	CA	ASN	A	46	-5.918	1.245	6.605	1.00	0.00
ATOM 671	C	ASN	A	46	-4.481	0.744	6.705	1.00	0.00
ATOM 672	O	ASN	A	46	-3.637	1.373	7.346	1.00	0.00
ATOM 673	CB	ASN	A	46	-6.792	0.531	7.637	1.00	0.00
ATOM 674	CG	ASN	A	46	-6.353	0.812	9.061	1.00	0.00
ATOM 675	OD1	ASN	A	46	-5.576	1.732	9.313	1.00	0.00

ATOM 676	ND2	ASN	A	46	-6.849	0.015	10.001	1.00	0.00
ATOM 677	H	ASN	A	46	-7.109	0.330	5.114	1.00	0.00
ATOM 678	HA	ASN	A	46	-5.932	2.306	6.806	1.00	0.00
ATOM 679	1HB	ASN	A	46	-7.814	0.861	7.525	1.00	0.00
ATOM 680	2HB	ASN	A	46	-6.742	-0.535	7.468	1.00	0.00
ATOM 681	1HD2	ASN	A	46	-7.462	-0.698	9.727	1.00	0.00
ATOM 682	2HD2	ASN	A	46	-6.581	0.174	10.931	1.00	0.00
ATOM 683	N	ALA	A	47	-4.210	-0.391	6.071	1.00	0.00
ATOM 684	CA	ALA	A	47	-2.875	-0.976	6.089	1.00	0.00
ATOM 685	C	ALA	A	47	-1.881	-0.101	5.332	1.00	0.00
ATOM 686	O	ALA	A	47	-0.730	0.046	5.744	1.00	0.00
ATOM 687	CB	ALA	A	47	-2.905	-2.378	5.496	1.00	0.00
ATOM 688	H	ALA	A	47	-4.924	-0.846	5.578	1.00	0.00
ATOM 689	HA	ALA	A	47	-2.559	-1.053	7.119	1.00	0.00
ATOM 690	1HB	ALA	A	47	-1.995	-2.554	4.942	1.00	0.00
ATOM 691	2HB	ALA	A	47	-3.753	-2.471	4.835	1.00	0.00
ATOM 692	3HB	ALA	A	47	-2.988	-3.103	6.292	1.00	0.00
ATOM 693	N	LEU	A	48	-2.332	0.476	4.224	1.00	0.00
ATOM 694	CA	LEU	A	48	-1.482	1.336	3.409	1.00	0.00
ATOM 695	C	LEU	A	48	-1.087	2.595	4.174	1.00	0.00
ATOM 696	O	LEU	A	48	0.089	2.957	4.229	1.00	0.00
ATOM 697	CB	LEU	A	48	-2.200	1.716	2.112	1.00	0.00
ATOM 698	CG	LEU	A	48	-2.250	0.615	1.053	1.00	0.00
ATOM 699	CD1	LEU	A	48	-3.190	1.002	-0.077	1.00	0.00
ATOM 700	CD2	LEU	A	48	-0.855	0.332	0.514	1.00	0.00
ATOM 701	H	LEU	A	48	-3.259	0.319	3.947	1.00	0.00
ATOM 702	HA	LEU	A	48	-0.588	0.782	3.165	1.00	0.00



ATOM 703	1HB	LEU	A	48	-3.214	1.998	2.357	1.00	0.00
ATOM 704	2HB	LEU	A	48	-1.700	2.573	1.687	1.00	0.00
ATOM 705	HG	LEU	A	48	-2.626	-0.292	1.503	1.00	0.00
ATOM 706	1HD1	LEU	A	48	-2.820	0.600	-1.008	1.00	0.00
ATOM 707	2HD1	LEU	A	48	-3.244	2.079	-0.147	1.00	0.00
ATOM 708	3HD1	LEU	A	48	-4.174	0.604	0.121	1.00	0.00
ATOM 709	1HD2	LEU	A	48	-0.719	0.849	-0.424	1.00	0.00
ATOM 710	2HD2	LEU	A	48	-0.737	-0.731	0.360	1.00	0.00
ATOM 711	3HD2	LEU	A	48	-0.117	0.675	1.225	1.00	0.00
ATOM 712	N	ASN	A	49	-2.077	3.260	4.761	1.00	0.00
ATOM 713	CA	ASN	A	49	-1.833	4.479	5.523	1.00	0.00
ATOM 714	C	ASN	A	49	-0.942	4.200	6.730	1.00	0.00
ATOM 715	O	ASN	A	49	-0.170	5.059	7.156	1.00	0.00
ATOM 716	CB	ASN	A	49	-3.159	5.095	5.978	1.00	0.00
ATOM 717	CG	ASN	A	49	-3.319	6.531	5.520	1.00	0.00
ATOM 718	OD1	ASN	A	49	-2.449	7.369	5.755	1.00	0.00
ATOM 719	ND2	ASN	A	49	-4.435	6.822	4.862	1.00	0.00
ATOM 720	H	ASN	A	49	-2.994	2.922	4.682	1.00	0.00
ATOM 721	HA	ASN	A	49	-1.327	5.179	4.872	1.00	0.00
ATOM 722	1HB	ASN	A	49	-3.975	4.515	5.572	1.00	0.00
ATOM 723	2HB	ASN	A	49	-3.210	5.071	7.057	1.00	0.00
ATOM 724	1HD2	ASN	A	49	-5.084	6.103	4.711	1.00	0.00
ATOM 725	2HD2	ASN	A	49	-4.564	7.743	4.554	1.00	0.00
ATOM 726	N	GLN	A	50	-1.056	2.994	7.276	1.00	0.00
ATOM 727	CA	GLN	A	50	-0.264	2.600	8.433	1.00	0.00
ATOM 728	C	GLN	A	50	1.158	2.232	8.011	1.00	0.00
ATOM 729	O	GLN	A	50	2.106	2.393	8.781	1.00	0.00

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ATOM 730	CB	GLN A	50	-0.942	1.424	9.153	1.00	0.00
ATOM 731	CG	GLN A	50	0.023	0.438	9.793	1.00	0.00
ATOM 732	CD	GLN A	50	-0.688	-0.679	10.531	1.00	0.00
ATOM 733	OE1	GLN A	50	-0.490	-1.857	10.237	1.00	0.00
ATOM 734	NE2	GLN A	50	-1.523	-0.313	11.497	1.00	0.00
ATOM 735	H	GLN A	50	-1.688	2.352	6.891	1.00	0.00
ATOM 736	HA	GLN A	50	-0.219	3.444	9.104	1.00	0.00
ATOM 737	1HB	GLN A	50	-1.582	1.818	9.929	1.00	0.00
ATOM 738	2HB	GLN A	50	-1.550	0.886	8.440	1.00	0.00
ATOM 739	1HG	GLN A	50	0.635	0.004	9.017	1.00	0.00
ATOM 740	2HG	GLN A	50	0.652	0.970	10.491	1.00	0.00
ATOM 741	1HE2	GLN A	50	-1.631	0.645	11.677	1.00	0.00
ATOM 742	2HE2	GLN A	50	-1.996	-1.014	11.991	1.00	0.00
ATOM 743	N	LEU A	51	1.300	1.740	6.784	1.00	0.00
ATOM 744	CA	LEU A	51	2.605	1.352	6.263	1.00	0.00
ATOM 745	C	LEU A	51	3.466	2.580	5.981	1.00	0.00
ATOM 746	O	LEU A	51	4.667	2.584	6.251	1.00	0.00
ATOM 747	CB	LEU A	51	2.443	0.524	4.988	1.00	0.00
ATOM 748	CG	LEU A	51	3.705	-0.206	4.525	1.00	0.00
ATOM 749	CD1	LEU A	51	3.340	-1.473	3.767	1.00	0.00
ATOM 750	CD2	LEU A	51	4.561	0.707	3.661	1.00	0.00
ATOM 751	H	LEU A	51	0.509	1.635	6.217	1.00	0.00
ATOM 752	HA	LEU A	51	3.096	0.749	7.013	1.00	0.00
ATOM 753	1HB	LEU A	51	1.668	-0.210	5.156	1.00	0.00
ATOM 754	2HB	LEU A	51	2.125	1.183	4.193	1.00	0.00
ATOM 755	HG	LEU A	51	4.285	-0.490	5.390	1.00	0.00
ATOM 756	1HD1	LEU A	51	2.369	-1.353	3.311	1.00	0.00

ATOM 757	2HD1	LEU	A	51	3.316	-2.308	4.451	1.00	0.00
ATOM 758	3HD1	LEU	A	51	4.078	-1.658	3.000	1.00	0.00
ATOM 759	1HD2	LEU	A	51	5.040	1.447	4.283	1.00	0.00
ATOM 760	2HD2	LEU	A	51	3.937	1.201	2.930	1.00	0.00
ATOM 761	3HD2	LEU	A	51	5.314	0.121	3.153	1.00	0.00
ATOM 762	N	PHE	A	52	2.844	3.618	5.433	1.00	0.00
ATOM 763	CA	PHE	A	52	3.553	4.852	5.112	1.00	0.00
ATOM 764	C	PHE	A	52	4.071	5.528	6.378	1.00	0.00
ATOM 765	O	PHE	A	52	5.212	5.986	6.426	1.00	0.00
ATOM 766	CB	PHE	A	52	2.637	5.810	4.347	1.00	0.00
ATOM 767	CG	PHE	A	52	1.839	5.143	3.263	1.00	0.00
ATOM 768	CD1	PHE	A	52	0.494	5.431	3.098	1.00	0.00
ATOM 769	CD2	PHE	A	52	2.434	4.227	2.410	1.00	0.00
ATOM 770	CE1	PHE	A	52	-0.243	4.820	2.103	1.00	0.00
ATOM 771	CE2	PHE	A	52	1.702	3.612	1.413	1.00	0.00
ATOM 772	CZ	PHE	A	52	0.361	3.909	1.258	1.00	0.00
ATOM 773	H	PHE	A	52	1.885	3.555	5.240	1.00	0.00
ATOM 774	HA	PHE	A	52	4.395	4.596	4.486	1.00	0.00
ATOM 775	1HB	PHE	A	52	1.943	6.261	5.039	1.00	0.00
ATOM 776	2HB	PHE	A	52	3.237	6.584	3.891	1.00	0.00
ATOM 777	HD1	PHE	A	52	0.020	6.145	3.757	1.00	0.00
ATOM 778	HD2	PHE	A	52	3.481	3.994	2.530	1.00	0.00
ATOM 779	HE1	PHE	A	52	-1.291	5.054	1.984	1.00	0.00
ATOM 780	HE2	PHE	A	52	2.177	2.900	0.753	1.00	0.00
ATOM 781	HZ	PHE	A	52	-0.213	3.430	0.479	1.00	0.00
ATOM 782	N	ARG	A	53	3.223	5.587	7.401	1.00	0.00
ATOM 783	CA	ARG	A	53	3.595	6.207	8.668	1.00	0.00

ATOM 784	C	ARG A	53	4.845	5.554	9.251	1.00	0.00
ATOM 785	O	ARG A	53	5.608	6.192	9.978	1.00	0.00
ATOM 786	CB	ARG A	53	2.439	6.107	9.666	1.00	0.00
ATOM 787	CG	ARG A	53	1.506	7.307	9.637	1.00	0.00
ATOM 788	CD	ARG A	53	0.046	6.885	9.562	1.00	0.00
ATOM 789	NE	ARG A	53	-0.681	7.209	10.788	1.00	0.00
ATOM 790	CZ	ARG A	53	-0.905	8.450	11.211	1.00	0.00
ATOM 791	NH1	ARG A	53	-0.460	9.488	10.512	1.00	0.00
ATOM 792	NH2	ARG A	53	-1.576	8.657	12.336	1.00	0.00
ATOM 793	H	ARG A	53	2.326	5.203	7.302	1.00	0.00
ATOM 794	HA	ARG A	53	3.803	7.249	8.478	1.00	0.00
ATOM 795	1HB	ARG A	53	1.863	5.221	9.443	1.00	0.00
ATOM 796	2HB	ARG A	53	2.847	6.019	10.663	1.00	0.00
ATOM 797	1HG	ARG A	53	1.655	7.888	10.535	1.00	0.00
ATOM 798	2HG	ARG A	53	1.741	7.911	8.772	1.00	0.00
ATOM 799	1HD	ARG A	53	-0.421	7.396	8.734	1.00	0.00
ATOM 800	2HD	ARG A	53	-0.002	5.819	9.397	1.00	0.00
ATOM 801	HE	ARG A	53	-1.021	6.461	11.323	1.00	0.00
ATOM 802	1HH1	ARG A	53	0.047	9.339	9.663	1.00	0.00
ATOM 803	2HH1	ARG A	53	-0.631	10.418	10.835	1.00	0.00
ATOM 804	1HH2	ARG A	53	-1.914	7.879	12.866	1.00	0.00
ATOM 805	2HH2	ARG A	53	-1.744	9.590	12.654	1.00	0.00
ATOM 806	N	ASN A	54	5.050	4.282	8.928	1.00	0.00
ATOM 807	CA	ASN A	54	6.208	3.544	9.419	1.00	0.00
ATOM 808	C	ASN A	54	7.325	3.519	8.378	1.00	0.00
ATOM 809	O	ASN A	54	8.496	3.341	8.716	1.00	0.00
ATOM 810	CB	ASN A	54	5.810	2.115	9.789	1.00	0.00

ATOM 811	CG	ASN A	54	5.361	1.995	11.232	1.00	0.00
ATOM 812	OD1	ASN A	54	6.177	1.798	12.133	1.00	0.00
ATOM 813	ND2	ASN A	54	4.058	2.111	11.459	1.00	0.00
ATOM 814	H	ASN A	54	4.408	3.827	8.344	1.00	0.00
ATOM 815	HA	ASN A	54	6.570	4.047	10.303	1.00	0.00
ATOM 816	1HB	ASN A	54	4.996	1.798	9.152	1.00	0.00
ATOM 817	2HB	ASN A	54	6.655	1.461	9.638	1.00	0.00
ATOM 818	1HD2	ASN A	54	3.467	2.267	10.693	1.00	0.00
ATOM 819	2HD2	ASN A	54	3.740	2.037	12.383	1.00	0.00
ATOM 820	N	SER A	55	6.958	3.695	7.112	1.00	0.00
ATOM 821	CA	SER A	55	7.931	3.690	6.023	1.00	0.00
ATOM 822	C	SER A	55	9.040	4.707	6.274	1.00	0.00
ATOM 823	O	SER A	55	8.933	5.550	7.166	1.00	0.00
ATOM 824	CB	SER A	55	7.240	3.991	4.692	1.00	0.00
ATOM 825	OG	SER A	55	7.032	5.383	4.528	1.00	0.00
ATOM 826	H	SER A	55	6.011	3.830	6.903	1.00	0.00
ATOM 827	HA	SER A	55	8.369	2.704	5.975	1.00	0.00
ATOM 828	1HB	SER A	55	7.856	3.634	3.881	1.00	0.00
ATOM 829	2HB	SER A	55	6.283	3.490	4.666	1.00	0.00
ATOM 830	HG	SER A	55	6.180	5.626	4.899	1.00	0.00
ATOM 831	N	SER A	56	10.104	4.622	5.482	1.00	0.00
ATOM 832	CA	SER A	56	11.234	5.535	5.618	1.00	0.00
ATOM 833	C	SER A	56	10.819	6.967	5.297	1.00	0.00
ATOM 834	O	SER A	56	11.359	7.920	5.859	1.00	0.00
ATOM 835	CB	SER A	56	12.377	5.104	4.698	1.00	0.00
ATOM 836	OG	SER A	56	13.541	5.877	4.933	1.00	0.00
ATOM 837	H	SER A	56	10.129	3.929	4.789	1.00	0.00

ATOM 838	HA	SER A	56	11.573	5.492	6.641	1.00	0.00
ATOM 839	1HB	SER A	56	12.608	4.065	4.876	1.00	0.00
ATOM 840	2HB	SER A	56	12.075	5.233	3.668	1.00	0.00
ATOM 841	HG	SER A	56	13.821	6.291	4.114	1.00	0.00
ATOM 842	N	ILE A	57	9.859	7.112	4.390	1.00	0.00
ATOM 843	CA	ILE A	57	9.373	8.429	3.995	1.00	0.00
ATOM 844	C	ILE A	57	8.106	8.798	4.759	1.00	0.00
ATOM 845	O	ILE A	57	7.122	9.252	4.173	1.00	0.00
ATOM 846	CB	ILE A	57	9.089	8.493	2.482	1.00	0.00
ATOM 847	CG1	ILE A	57	8.133	7.370	2.070	1.00	0.00
ATOM 848	CG2	ILE A	57	10.388	8.406	1.694	1.00	0.00
ATOM 849	CD1	ILE A	57	7.654	7.479	0.639	1.00	0.00
ATOM 850	H	ILE A	57	9.467	6.315	3.977	1.00	0.00
ATOM 851	HA	ILE A	57	10.143	9.150	4.226	1.00	0.00
ATOM 852	HB	ILE A	57	8.628	9.445	2.265	1.00	0.00
ATOM 853	1HG1	ILE A	57	8.635	6.421	2.178	1.00	0.00
ATOM 854	2HG1	ILE A	57	7.266	7.390	2.714	1.00	0.00
ATOM 855	1HG2	ILE A	57	10.740	9.401	1.471	1.00	0.00
ATOM 856	2HG2	ILE A	57	10.215	7.869	0.773	1.00	0.00
ATOM 857	3HG2	ILE A	57	11.129	7.884	2.281	1.00	0.00
ATOM 858	1HD1	ILE A	57	8.501	7.431	-0.029	1.00	0.00
ATOM 859	2HD1	ILE A	57	7.141	8.420	0.502	1.00	0.00
ATOM 860	3HD1	ILE A	57	6.978	6.666	0.422	1.00	0.00
ATOM 861	N	LYS A	58	8.136	8.600	6.073	1.00	0.00
ATOM 862	CA	LYS A	58	6.991	8.913	6.921	1.00	0.00
ATOM 863	C	LYS A	58	6.968	10.396	7.279	1.00	0.00
ATOM 864	O	LYS A	58	7.009	10.765	8.453	1.00	0.00

ATOM 865	CB	LYS A	58	7.028	8.067	8.196	1.00	0.00
ATOM 866	CG	LYS A	58	8.231	8.353	9.080	1.00	0.00
ATOM 867	CD	LYS A	58	8.573	7.159	9.957	1.00	0.00
ATOM 868	CE	LYS A	58	9.666	7.498	10.958	1.00	0.00
ATOM 869	NZ	LYS A	58	10.600	6.359	11.168	1.00	0.00
ATOM 870	H	LYS A	58	8.948	8.236	6.483	1.00	0.00
ATOM 871	HA	LYS A	58	6.096	8.675	6.367	1.00	0.00
ATOM 872	1HB	LYS A	58	6.133	8.259	8.768	1.00	0.00
ATOM 873	2HB	LYS A	58	7.051	7.023	7.920	1.00	0.00
ATOM 874	1HG	LYS A	58	9.079	8.583	8.454	1.00	0.00
ATOM 875	2HG	LYS A	58	8.006	9.199	9.712	1.00	0.00
ATOM 876	1HD	LYS A	58	7.689	6.854	10.495	1.00	0.00
ATOM 877	2HD	LYS A	58	8.913	6.349	9.328	1.00	0.00
ATOM 878	1HE	LYS A	58	10.224	8.347	10.589	1.00	0.00
ATOM 879	2HE	LYS A	58	9.204	7.754	11.901	1.00	0.00
ATOM 880	1HZ	LYS A	58	10.077	5.461	11.161	1.00	0.00
ATOM 881	2HZ	LYS A	58	11.085	6.458	12.083	1.00	0.00
ATOM 882	3HZ	LYS A	58	11.315	6.338	10.411	1.00	0.00
ATOM 883	N	SER A	59	6.902	11.244	6.258	1.00	0.00
ATOM 884	CA	SER A	59	6.873	12.687	6.464	1.00	0.00
ATOM 885	C	SER A	59	6.134	13.386	5.326	1.00	0.00
ATOM 886	O	SER A	59	5.286	14.247	5.559	1.00	0.00
ATOM 887	CB	SER A	59	8.296	13.236	6.576	1.00	0.00
ATOM 888	OG	SER A	59	8.288	14.597	6.972	1.00	0.00
ATOM 889	H	SER A	59	6.871	10.891	5.344	1.00	0.00
ATOM 890	HA	SER A	59	6.349	12.879	7.388	1.00	0.00
ATOM 891	1HB	SER A	59	8.843	12.664	7.312	1.00	0.00

ATOM 892	2HB	SER A	59	8.788	13.155	5.619	1.00	0.00
ATOM 893	HG	SER A	59	8.665	14.678	7.851	1.00	0.00
ATOM 894	N	TYR A	60	6.462	13.007	4.095	1.00	0.00
ATOM 895	CA	TYR A	60	5.830	13.596	2.920	1.00	0.00
ATOM 896	C	TYR A	60	4.650	12.749	2.455	1.00	0.00
ATOM 897	O	TYR A	60	3.683	13.269	1.897	1.00	0.00
ATOM 898	CB	TYR A	60	6.847	13.742	1.787	1.00	0.00
ATOM 899	CG	TYR A	60	7.938	14.747	2.077	1.00	0.00
ATOM 900	CD1	TYR A	60	7.658	16.106	2.140	1.00	0.00
ATOM 901	CD2	TYR A	60	9.248	14.337	2.285	1.00	0.00
ATOM 902	CE1	TYR A	60	8.653	17.029	2.404	1.00	0.00
ATOM 903	CE2	TYR A	60	10.250	15.253	2.550	1.00	0.00
ATOM 904	CZ	TYR A	60	9.946	16.597	2.608	1.00	0.00
ATOM 905	OH	TYR A	60	10.939	17.512	2.872	1.00	0.00
ATOM 906	H	TYR A	60	7.146	12.315	3.973	1.00	0.00
ATOM 907	HA	TYR A	60	5.469	14.576	3.195	1.00	0.00
ATOM 908	1HB	TYR A	60	7.316	12.786	1.609	1.00	0.00
ATOM 909	2HB	TYR A	60	6.332	14.057	0.890	1.00	0.00
ATOM 910	HD1	TYR A	60	6.643	16.441	1.980	1.00	0.00
ATOM 911	HD2	TYR A	60	9.483	13.284	2.238	1.00	0.00
ATOM 912	HE1	TYR A	60	8.414	18.081	2.451	1.00	0.00
ATOM 913	HE2	TYR A	60	11.262	14.915	2.710	1.00	0.00
ATOM 914	HH	TYR A	60	10.815	18.288	2.321	1.00	0.00
ATOM 915	N	PHE A	61	4.736	11.444	2.688	1.00	0.00
ATOM 916	CA	PHE A	61	3.675	10.525	2.291	1.00	0.00
ATOM 917	C	PHE A	61	2.358	10.890	2.970	1.00	0.00
ATOM 918	O	PHE A	61	2.230	10.794	4.191	1.00	0.00



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ATOM 919	CB	PHE A	61	4.061	9.086	2.642	1.00	0.00
ATOM 920	CG	PHE A	61	3.473	8.061	1.714	1.00	0.00
ATOM 921	CD1	PHE A	61	4.261	7.048	1.193	1.00	0.00
ATOM 922	CD2	PHE A	61	2.133	8.111	1.364	1.00	0.00
ATOM 923	CE1	PHE A	61	3.726	6.103	0.339	1.00	0.00
ATOM 924	CE2	PHE A	61	1.591	7.168	0.510	1.00	0.00
ATOM 925	CZ	PHE A	61	2.388	6.163	-0.004	1.00	0.00
ATOM 926	H	PHE A	61	5.532	11.089	3.135	1.00	0.00
ATOM 927	HA	PHE A	61	3.550	10.604	1.223	1.00	0.00
ATOM 928	1HB	PHE A	61	5.136	8.990	2.604	1.00	0.00
ATOM 929	2HB	PHE A	61	3.720	8.864	3.643	1.00	0.00
ATOM 930	HD1	PHE A	61	5.307	7.000	1.460	1.00	0.00
ATOM 931	HD2	PHE A	61	1.509	8.895	1.763	1.00	0.00
ATOM 932	HE1	PHE A	61	4.351	5.319	-0.061	1.00	0.00
ATOM 933	HE2	PHE A	61	0.546	7.217	0.244	1.00	0.00
ATOM 934	HZ	PHE A	61	1.967	5.426	-0.670	1.00	0.00
ATOM 935	N	SER A	62	1.383	11.309	2.171	1.00	0.00
ATOM 936	CA	SER A	62	0.076	11.688	2.695	1.00	0.00
ATOM 937	C	SER A	62	-0.781	10.455	2.962	1.00	0.00
ATOM 938	O	SER A	62	-1.075	10.130	4.112	1.00	0.00
ATOM 939	CB	SER A	62	-0.640	12.618	1.713	1.00	0.00
ATOM 940	OG	SER A	62	-1.968	12.880	2.134	1.00	0.00
ATOM 941	H	SER A	62	1.545	11.365	1.206	1.00	0.00
ATOM 942	HA	SER A	62	0.231	12.213	3.626	1.00	0.00
ATOM 943	1HB	SER A	62	-0.105	13.555	1.653	1.00	0.00
ATOM 944	2HB	SER A	62	-0.668	12.156	0.738	1.00	0.00
ATOM 945	HG	SER A	62	-2.495	13.151	1.379	1.00	0.00

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ATOM 946	N	ASP	A	63	-1.178	9.774	1.892	1.00	0.00
ATOM 947	CA	ASP	A	63	-2.001	8.575	2.013	1.00	0.00
ATOM 948	C	ASP	A	63	-2.258	7.953	0.644	1.00	0.00
ATOM 949	O	ASP	A	63	-1.804	8.466	-0.379	1.00	0.00
ATOM 950	CB	ASP	A	63	-3.330	8.909	2.692	1.00	0.00
ATOM 951	CG	ASP	A	63	-4.005	10.121	2.080	1.00	0.00
ATOM 952	OD1	ASP	A	63	-4.485	10.983	2.846	1.00	0.00
ATOM 953	OD2	ASP	A	63	-4.053	10.208	0.835	1.00	0.00
ATOM 954	H	ASP	A	63	-0.910	10.083	1.001	1.00	0.00
ATOM 955	HA	ASP	A	63	-1.463	7.865	2.622	1.00	0.00
ATOM 956	1HB	ASP	A	63	-3.996	8.064	2.600	1.00	0.00
ATOM 957	2HB	ASP	A	63	-3.151	9.109	3.739	1.00	0.00
ATOM 958	N	CYS	A	64	-2.988	6.842	0.633	1.00	0.00
ATOM 959	CA	CYS	A	64	-3.307	6.150	-0.609	1.00	0.00
ATOM 960	C	CYS	A	64	-4.784	6.305	-0.956	1.00	0.00
ATOM 961	O	CYS	A	64	-5.610	6.582	-0.086	1.00	0.00
ATOM 962	CB	CYS	A	64	-2.949	4.666	-0.497	1.00	0.00
ATOM 963	SG	CYS	A	64	-2.093	4.003	-1.945	1.00	0.00
ATOM 964	H	CYS	A	64	-3.321	6.481	1.481	1.00	0.00
ATOM 965	HA	CYS	A	64	-2.717	6.594	-1.396	1.00	0.00
ATOM 966	1HB	CYS	A	64	-2.305	4.523	0.357	1.00	0.00
ATOM 967	2HB	CYS	A	64	-3.855	4.093	-0.359	1.00	0.00
ATOM 968	HG	CYS	A	64	-1.254	4.463	-2.029	1.00	0.00
ATOM 969	N	GLN	A	65	-5.109	6.125	-2.231	1.00	0.00
ATOM 970	CA	GLN	A	65	-6.487	6.245	-2.694	1.00	0.00
ATOM 971	C	GLN	A	65	-6.930	4.976	-3.413	1.00	0.00
ATOM 972	O	GLN	A	65	-6.661	4.796	-4.600	1.00	0.00

ATOM 973	CB	GLN A	65	-6.632	7.451	-3.625	1.00	0.00
ATOM 974	CG	GLN A	65	-8.041	7.641	-4.162	1.00	0.00
ATOM 975	CD	GLN A	65	-9.009	8.126	-3.102	1.00	0.00
ATOM 976	OE1	GLN A	65	-8.607	8.728	-2.106	1.00	0.00
ATOM 977	NE2	GLN A	65	-10.294	7.864	-3.310	1.00	0.00
ATOM 978	H	GLN A	65	-4.405	5.907	-2.878	1.00	0.00
ATOM 979	HA	GLN A	65	-7.115	6.393	-1.828	1.00	0.00
ATOM 980	1HB	GLN A	65	-6.352	8.344	-3.085	1.00	0.00
ATOM 981	2HB	GLN A	65	-5.964	7.324	-4.464	1.00	0.00
ATOM 982	1HG	GLN A	65	-8.013	8.367	-4.960	1.00	0.00
ATOM 983	2HG	GLN A	65	-8.396	6.697	-4.548	1.00	0.00
ATOM 984	1HE2	GLN A	65	-10.542	7.380	-4.124	1.00	0.00
ATOM 985	2HE2	GLN A	65	-10.943	8.167	-2.640	1.00	0.00
ATOM 986	N	VAL A	66	-7.612	4.096	-2.685	1.00	0.00
ATOM 987	CA	VAL A	66	-8.093	2.845	-3.254	1.00	0.00
ATOM 988	C	VAL A	66	-9.189	3.100	-4.285	1.00	0.00
ATOM 989	O	VAL A	66	-10.328	3.412	-3.935	1.00	0.00
ATOM 990	CB	VAL A	66	-8.630	1.901	-2.158	1.00	0.00
ATOM 991	CG1	VAL A	66	-9.795	2.541	-1.419	1.00	0.00
ATOM 992	CG2	VAL A	66	-9.035	0.559	-2.753	1.00	0.00
ATOM 993	H	VAL A	66	-7.796	4.297	-1.743	1.00	0.00
ATOM 994	HA	VAL A	66	-7.261	2.359	-3.742	1.00	0.00
ATOM 995	HB	VAL A	66	-7.837	1.726	-1.446	1.00	0.00
ATOM 996	1HG1	VAL A	66	-10.720	2.280	-1.910	1.00	0.00
ATOM 997	2HG1	VAL A	66	-9.676	3.615	-1.421	1.00	0.00
ATOM 998	3HG1	VAL A	66	-9.814	2.184	-0.400	1.00	0.00
ATOM 999	1HG2	VAL A	66	-8.241	-0.157	-2.603	1.00	0.00

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ATOM 1000	2HG2	VAL	A	66	-9.221	0.674	-3.810	1.00	0.00
ATOM 1001	3HG2	VAL	A	66	-9.934	0.207	-2.267	1.00	0.00
ATOM 1002	N	LEU	A	67	-8.836	2.968	-5.559	1.00	0.00
ATOM 1003	CA	LEU	A	67	-9.788	3.187	-6.643	1.00	0.00
ATOM 1004	C	LEU	A	67	-10.797	2.046	-6.718	1.00	0.00
ATOM 1005	O	LEU	A	67	-11.999	2.256	-6.556	1.00	0.00
ATOM 1006	CB	LEU	A	67	-9.050	3.324	-7.976	1.00	0.00
ATOM 1007	CG	LEU	A	67	-7.786	4.185	-7.931	1.00	0.00
ATOM 1008	CD1	LEU	A	67	-7.181	4.317	-9.320	1.00	0.00
ATOM 1009	CD2	LEU	A	67	-8.096	5.556	-7.349	1.00	0.00
ATOM 1010	H	LEU	A	67	-7.913	2.720	-5.777	1.00	0.00
ATOM 1011	HA	LEU	A	67	-10.316	4.105	-6.438	1.00	0.00
ATOM 1012	1HB	LEU	A	67	-8.776	2.335	-8.316	1.00	0.00
ATOM 1013	2HB	LEU	A	67	-9.729	3.759	-8.695	1.00	0.00
ATOM 1014	HG	LEU	A	67	-7.057	3.707	-7.293	1.00	0.00
ATOM 1015	1HD1	LEU	A	67	-7.950	4.169	-10.063	1.00	0.00
ATOM 1016	2HD1	LEU	A	67	-6.408	3.574	-9.448	1.00	0.00
ATOM 1017	3HD1	LEU	A	67	-6.756	5.303	-9.435	1.00	0.00
ATOM 1018	1HD2	LEU	A	67	-8.711	5.443	-6.468	1.00	0.00
ATOM 1019	2HD2	LEU	A	67	-8.624	6.148	-8.083	1.00	0.00
ATOM 1020	3HD2	LEU	A	67	-7.174	6.052	-7.084	1.00	0.00
ATOM 1021	N	ALA	A	68	-10.301	0.838	-6.967	1.00	0.00
ATOM 1022	CA	ALA	A	68	-11.162	-0.335	-7.064	1.00	0.00
ATOM 1023	C	ALA	A	68	-10.337	-1.607	-7.235	1.00	0.00
ATOM 1024	O	ALA	A	68	-9.115	-1.554	-7.369	1.00	0.00
ATOM 1025	CB	ALA	A	68	-12.139	-0.178	-8.219	1.00	0.00
ATOM 1026	H	ALA	A	68	-9.334	0.734	-7.088	1.00	0.00

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ATOM 1027	HA	ALA	A	68	-11.731	-0.407	-6.149	1.00	0.00
ATOM 1028	1HB	ALA	A	68	-12.702	0.734	-8.092	1.00	0.00
ATOM 1029	2HB	ALA	A	68	-12.817	-1.020	-8.235	1.00	0.00
ATOM 1030	3HB	ALA	A	68	-11.593	-0.138	-9.150	1.00	0.00
ATOM 1031	N	PHE	A	69	-11.017	-2.751	-7.228	1.00	0.00
ATOM 1032	CA	PHE	A	69	-10.347	-4.037	-7.381	1.00	0.00
ATOM 1033	C	PHE	A	69	-10.500	-4.562	-8.805	1.00	0.00
ATOM 1034	O	PHE	A	69	-11.578	-4.481	-9.394	1.00	0.00
ATOM 1035	CB	PHE	A	69	-10.913	-5.052	-6.386	1.00	0.00
ATOM 1036	CG	PHE	A	69	-10.832	-4.601	-4.956	1.00	0.00
ATOM 1037	CD1	PHE	A	69	-9.609	-4.292	-4.382	1.00	0.00
ATOM 1038	CD2	PHE	A	69	-11.978	-4.489	-4.185	1.00	0.00
ATOM 1039	CE1	PHE	A	69	-9.532	-3.877	-3.066	1.00	0.00
ATOM 1040	CE2	PHE	A	69	-11.906	-4.075	-2.869	1.00	0.00
ATOM 1041	CZ	PHE	A	69	-10.681	-3.768	-2.309	1.00	0.00
ATOM 1042	H	PHE	A	69	-11.990	-2.728	-7.116	1.00	0.00
ATOM 1043	HA	PHE	A	69	-9.297	-3.891	-7.176	1.00	0.00
ATOM 1044	1HB	PHE	A	69	-11.952	-5.233	-6.619	1.00	0.00
ATOM 1045	2HB	PHE	A	69	-10.363	-5.978	-6.476	1.00	0.00
ATOM 1046	HD1	PHE	A	69	-8.710	-4.375	-4.974	1.00	0.00
ATOM 1047	HD2	PHE	A	69	-12.936	-4.729	-4.622	1.00	0.00
ATOM 1048	HE1	PHE	A	69	-8.573	-3.638	-2.630	1.00	0.00
ATOM 1049	HE2	PHE	A	69	-12.807	-3.991	-2.278	1.00	0.00
ATOM 1050	HZ	PHE	A	69	-10.622	-3.444	-1.280	1.00	0.00
ATOM 1051	N	ARG	A	70	-9.416	-5.101	-9.351	1.00	0.00
ATOM 1052	CA	ARG	A	70	-9.428	-5.640	-10.705	1.00	0.00
ATOM 1053	C	ARG	A	70	-9.536	-7.161	-10.685	1.00	0.00

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ATOM	1054	O	ARG	A	70	-8.560	-7.859	-10.410	1.00	0.00
ATOM	1055	CB	ARG	A	70	-8.164	-5.216	-11.456	1.00	0.00
ATOM	1056	CG	ARG	A	70	-7.991	-3.709	-11.557	1.00	0.00
ATOM	1057	CD	ARG	A	70	-8.655	-3.148	-12.805	1.00	0.00
ATOM	1058	NE	ARG	A	70	-9.990	-3.707	-13.018	1.00	0.00
ATOM	1059	CZ	ARG	A	70	-10.252	-4.735	-13.825	1.00	0.00
ATOM	1060	NH1	ARG	A	70	-9.274	-5.336	-14.494	1.00	0.00
ATOM	1061	NH2	ARG	A	70	-11.498	-5.167	-13.961	1.00	0.00
ATOM	1062	H	ARG	A	70	-8.585	-5.136	-8.831	1.00	0.00
ATOM	1063	HA	ARG	A	70	-10.290	-5.237	-11.215	1.00	0.00
ATOM	1064	1HB	ARG	A	70	-7.303	-5.622	-10.946	1.00	0.00
ATOM	1065	2HB	ARG	A	70	-8.200	-5.620	-12.457	1.00	0.00
ATOM	1066	1HG	ARG	A	70	-8.437	-3.248	-10.688	1.00	0.00
ATOM	1067	2HG	ARG	A	70	-6.937	-3.479	-11.587	1.00	0.00
ATOM	1068	1HD	ARG	A	70	-8.739	-2.077	-12.700	1.00	0.00
ATOM	1069	2HD	ARG	A	70	-8.038	-3.375	-13.660	1.00	0.00
ATOM	1070	HE	ARG	A	70	-10.735	-3.291	-12.536	1.00	0.00
ATOM	1071	1HH1	ARG	A	70	-8.331	-5.021	-14.396	1.00	0.00
ATOM	1072	2HH1	ARG	A	70	-9.483	-6.105	-15.097	1.00	0.00
ATOM	1073	1HH2	ARG	A	70	-12.239	-4.723	-13.458	1.00	0.00
ATOM	1074	2HH2	ARG	A	70	-11.697	-5.939	-14.566	1.00	0.00
ATOM	1075	N	SER	A	71	-10.729	-7.669	-10.978	1.00	0.00
ATOM	1076	CA	SER	A	71	-10.967	-9.106	-10.993	1.00	0.00
ATOM	1077	C	SER	A	71	-10.046	-9.802	-11.991	1.00	0.00
ATOM	1078	O	SER	A	71	-9.589	-9.193	-12.958	1.00	0.00
ATOM	1079	CB	SER	A	71	-12.430	-9.393	-11.338	1.00	0.00
ATOM	1080	OG	SER	A	71	-12.627	-9.440	-12.741	1.00	0.00

ATOM 1081	H	SER A	71	-11.468	-7.061	-11.189	1.00	0.00
ATOM 1082	HA	SER A	71	-10.759	-9.486	-10.004	1.00	0.00
ATOM 1083	1HB	SER A	71	-12.716	-10.343	-10.915	1.00	0.00
ATOM 1084	2HB	SER A	71	-13.053	-8.614	-10.924	1.00	0.00
ATOM 1085	HG	SER A	71	-12.158	-8.712	-13.155	1.00	0.00
ATOM 1086	N	VAL A	72	-9.779	-11.081	-11.748	1.00	0.00
ATOM 1087	CA	VAL A	72	-8.913	-11.861	-12.625	1.00	0.00
ATOM 1088	C	VAL A	72	-9.639	-13.091	-13.161	1.00	0.00
ATOM 1089	O	VAL A	72	-10.463	-13.688	-12.469	1.00	0.00
ATOM 1090	CB	VAL A	72	-7.634	-12.312	-11.895	1.00	0.00
ATOM 1091	CG1	VAL A	72	-6.667	-11.149	-11.742	1.00	0.00
ATOM 1092	CG2	VAL A	72	-7.976	-12.912	-10.540	1.00	0.00
ATOM 1093	H	VAL A	72	-10.173	-11.511	-10.961	1.00	0.00
ATOM 1094	HA	VAL A	72	-8.627	-11.233	-13.456	1.00	0.00
ATOM 1095	HB	VAL A	72	-7.153	-13.074	-12.491	1.00	0.00
ATOM 1096	1HG1	VAL A	72	-7.218	-10.220	-11.750	1.00	0.00
ATOM 1097	2HG1	VAL A	72	-5.963	-11.156	-12.561	1.00	0.00
ATOM 1098	3HG1	VAL A	72	-6.134	-11.244	-10.807	1.00	0.00
ATOM 1099	1HG2	VAL A	72	-7.076	-13.290	-10.076	1.00	0.00
ATOM 1100	2HG2	VAL A	72	-8.678	-13.722	-10.672	1.00	0.00
ATOM 1101	3HG2	VAL A	72	-8.415	-12.153	-9.910	1.00	0.00
ATOM 1102	N	SER A	73	-9.326	-13.463	-14.397	1.00	0.00
ATOM 1103	CA	SER A	73	-9.948	-14.623	-15.027	1.00	0.00
ATOM 1104	C	SER A	73	-9.119	-15.881	-14.789	1.00	0.00
ATOM 1105	O	SER A	73	-9.664	-16.973	-14.623	1.00	0.00
ATOM 1106	CB	SER A	73	-10.116	-14.385	-16.528	1.00	0.00
ATOM 1107	OG	SER A	73	-10.594	-13.077	-16.787	1.00	0.00

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ATOM	1108	H	SER	A	73	-8.660	-12.947	-14.899	1.00	0.00
ATOM	1109	HA	SER	A	73	-10.922	-14.759	-14.581	1.00	0.00
ATOM	1110	1HB	SER	A	73	-9.163	-14.511	-17.020	1.00	0.00
ATOM	1111	2HB	SER	A	73	-10.823	-15.099	-16.926	1.00	0.00
ATOM	1112	N	ASN	A	74	-7.800	-15.721	-14.773	1.00	0.00
ATOM	1113	CA	ASN	A	74	-6.895	-16.844	-14.555	1.00	0.00
ATOM	1114	C	ASN	A	74	-7.164	-17.504	-13.207	1.00	0.00
ATOM	1115	O	ASN	A	74	-7.650	-18.634	-13.143	1.00	0.00
ATOM	1116	CB	ASN	A	74	-5.440	-16.375	-14.631	1.00	0.00
ATOM	1117	CG	ASN	A	74	-4.702	-16.969	-15.815	1.00	0.00
ATOM	1118	OD1	ASN	A	74	-4.877	-18.141	-16.147	1.00	0.00
ATOM	1119	ND2	ASN	A	74	-3.870	-16.159	-16.460	1.00	0.00
ATOM	1120	H	ASN	A	74	-7.425	-14.826	-14.912	1.00	0.00
ATOM	1121	HA	ASN	A	74	-7.072	-17.567	-15.338	1.00	0.00
ATOM	1122	1HB	ASN	A	74	-5.419	-15.299	-14.721	1.00	0.00
ATOM	1123	2HB	ASN	A	74	-4.926	-16.666	-13.727	1.00	0.00
ATOM	1124	1HD2	ASN	A	74	-3.780	-15.237	-16.140	1.00	0.00
ATOM	1125	2HD2	ASN	A	74	-3.380	-16.517	-17.230	1.00	0.00
ATOM	1126	N	ASN	A	75	-6.844	-16.793	-12.131	1.00	0.00
ATOM	1127	CA	ASN	A	75	-7.050	-17.309	-10.782	1.00	0.00
ATOM	1128	C	ASN	A	75	-8.002	-16.413	-9.997	1.00	0.00
ATOM	1129	O	ASN	A	75	-7.595	-15.389	-9.449	1.00	0.00
ATOM	1130	CB	ASN	A	75	-5.713	-17.422	-10.047	1.00	0.00
ATOM	1131	CG	ASN	A	75	-5.688	-18.577	-9.066	1.00	0.00
ATOM	1132	OD1	ASN	A	75	-6.354	-18.544	-8.031	1.00	0.00
ATOM	1133	ND2	ASN	A	75	-4.918	-19.610	-9.389	1.00	0.00
ATOM	1134	H	ASN	A	75	-6.459	-15.899	-12.247	1.00	0.00



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ATOM	1135	HA	ASN	A	75	-7.488	-18.292	-10.867	1.00	0.00
ATOM	1136	1HB	ASN	A	75	-4.923	-17.569	-10.768	1.00	0.00
ATOM	1137	2HB	ASN	A	75	-5.531	-16.507	-9.502	1.00	0.00
ATOM	1138	1HD2	ASN	A	75	-4.416	-19.569	-10.229	1.00	0.00
ATOM	1139	2HD2	ASN	A	75	-4.883	-20.372	-8.772	1.00	0.00
ATOM	1140	N	ASN	A	76	-9.271	-16.805	-9.948	1.00	0.00
ATOM	1141	CA	ASN	A	76	-10.284	-16.037	-9.229	1.00	0.00
ATOM	1142	C	ASN	A	76	-9.868	-15.800	-7.780	1.00	0.00
ATOM	1143	O	ASN	A	76	-10.262	-14.810	-7.165	1.00	0.00
ATOM	1144	CB	ASN	A	76	-11.630	-16.764	-9.273	1.00	0.00
ATOM	1145	CG	ASN	A	76	-12.537	-16.236	-10.367	1.00	0.00
ATOM	1146	OD1	ASN	A	76	-13.646	-15.773	-10.101	1.00	0.00
ATOM	1147	ND2	ASN	A	76	-12.068	-16.303	-11.608	1.00	0.00
ATOM	1148	H	ASN	A	76	-9.534	-17.630	-10.405	1.00	0.00
ATOM	1149	HA	ASN	A	76	-10.386	-15.082	-9.722	1.00	0.00
ATOM	1150	1HB	ASN	A	76	-11.459	-17.816	-9.450	1.00	0.00
ATOM	1151	2HB	ASN	A	76	-12.131	-16.640	-8.324	1.00	0.00
ATOM	1152	1HD2	ASN	A	76	-11.176	-16.684	-11.746	1.00	0.00
ATOM	1153	2HD2	ASN	A	76	-12.634	-15.968	-12.335	1.00	0.00
ATOM	1154	N	ASN	A	77	-9.067	-16.715	-7.241	1.00	0.00
ATOM	1155	CA	ASN	A	77	-8.597	-16.605	-5.864	1.00	0.00
ATOM	1156	C	ASN	A	77	-7.846	-15.294	-5.645	1.00	0.00
ATOM	1157	O	ASN	A	77	-7.813	-14.764	-4.534	1.00	0.00
ATOM	1158	CB	ASN	A	77	-7.693	-17.788	-5.516	1.00	0.00
ATOM	1159	CG	ASN	A	77	-7.915	-18.291	-4.104	1.00	0.00
ATOM	1160	OD1	ASN	A	77	-6.990	-18.328	-3.292	1.00	0.00
ATOM	1161	ND2	ASN	A	77	-9.147	-18.683	-3.803	1.00	0.00

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ATOM	1162	H	ASN	A	77	-8.786	-17.483	-7.780	1.00	0.00
ATOM	1163	HA	ASN	A	77	-9.461	-16.622	-5.217	1.00	0.00
ATOM	1164	1HB	ASN	A	77	-7.891	-18.599	-6.202	1.00	0.00
ATOM	1165	2HB	ASN	A	77	-6.660	-17.485	-5.613	1.00	0.00
ATOM	1166	1HD2	ASN	A	77	-9.834	-18.628	-4.500	1.00	0.00
ATOM	1167	2HD2	ASN	A	77	-9.320	-19.013	-2.897	1.00	0.00
ATOM	1168	N	HIS	A	78	-7.244	-14.776	-6.712	1.00	0.00
ATOM	1169	CA	HIS	A	78	-6.493	-13.528	-6.634	1.00	0.00
ATOM	1170	C	HIS	A	78	-7.396	-12.330	-6.910	1.00	0.00
ATOM	1171	O	HIS	A	78	-8.527	-12.484	-7.371	1.00	0.00
ATOM	1172	CB	HIS	A	78	-5.332	-13.544	-7.629	1.00	0.00
ATOM	1173	CG	HIS	A	78	-4.329	-14.622	-7.358	1.00	0.00
ATOM	1174	ND1	HIS	A	78	-3.208	-14.821	-8.136	1.00	0.00
ATOM	1175	CD2	HIS	A	78	-4.280	-15.565	-6.387	1.00	0.00
ATOM	1176	CE1	HIS	A	78	-2.515	-15.838	-7.657	1.00	0.00
ATOM	1177	NE2	HIS	A	78	-3.144	-16.307	-6.595	1.00	0.00
ATOM	1178	H	HIS	A	78	-7.305	-15.244	-7.571	1.00	0.00
ATOM	1179	HA	HIS	A	78	-6.097	-13.441	-5.633	1.00	0.00
ATOM	1180	1HB	HIS	A	78	-5.721	-13.696	-8.624	1.00	0.00
ATOM	1181	2HB	HIS	A	78	-4.819	-12.595	-7.589	1.00	0.00
ATOM	1182	HD1	HIS	A	78	-2.958	-14.294	-8.924	1.00	0.00
ATOM	1183	HD2	HIS	A	78	-5.002	-15.707	-5.594	1.00	0.00
ATOM	1184	HE1	HIS	A	78	-1.590	-16.220	-8.063	1.00	0.00
ATOM	1185	HE2	HIS	A	78	-2.892	-17.114	-6.101	1.00	0.00
ATOM	1186	N	THR	A	79	-6.888	-11.135	-6.624	1.00	0.00
ATOM	1187	CA	THR	A	79	-7.646	-9.909	-6.841	1.00	0.00
ATOM	1188	C	THR	A	79	-6.710	-8.718	-7.029	1.00	0.00

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ATOM	1189	O	THR	A	79	-5.888	-8.420	-6.163	1.00	0.00
ATOM	1190	CB	THR	A	79	-8.589	-9.652	-5.664	1.00	0.00
ATOM	1191	OG1	THR	A	79	-9.481	-10.740	-5.491	1.00	0.00
ATOM	1192	CG2	THR	A	79	-9.422	-8.398	-5.825	1.00	0.00
ATOM	1193	H	THR	A	79	-5.980	-11.077	-6.258	1.00	0.00
ATOM	1194	HA	THR	A	79	-8.232	-10.036	-7.739	1.00	0.00
ATOM	1195	HB	THR	A	79	-8.003	-9.547	-4.763	1.00	0.00
ATOM	1196	HG1	THR	A	79	-10.062	-10.562	-4.747	1.00	0.00
ATOM	1197	1HG2	THR	A	79	-8.886	-7.555	-5.415	1.00	0.00
ATOM	1198	2HG2	THR	A	79	-10.359	-8.519	-5.300	1.00	0.00
ATOM	1199	3HG2	THR	A	79	-9.616	-8.226	-6.873	1.00	0.00
ATOM	1200	N	GLY	A	80	-6.840	-8.044	-8.167	1.00	0.00
ATOM	1201	CA	GLY	A	80	-5.999	-6.896	-8.450	1.00	0.00
ATOM	1202	C	GLY	A	80	-6.386	-5.676	-7.638	1.00	0.00
ATOM	1203	O	GLY	A	80	-7.567	-5.347	-7.524	1.00	0.00
ATOM	1204	H	GLY	A	80	-7.512	-8.329	-8.821	1.00	0.00
ATOM	1205	1HA	GLY	A	80	-4.974	-7.151	-8.229	1.00	0.00
ATOM	1206	2HA	GLY	A	80	-6.079	-6.655	-9.500	1.00	0.00
ATOM	1207	N	VAL	A	81	-5.389	-5.002	-7.074	1.00	0.00
ATOM	1208	CA	VAL	A	81	-5.631	-3.810	-6.269	1.00	0.00
ATOM	1209	C	VAL	A	81	-5.292	-2.544	-7.051	1.00	0.00
ATOM	1210	O	VAL	A	81	-4.180	-2.394	-7.556	1.00	0.00
ATOM	1211	CB	VAL	A	81	-4.808	-3.836	-4.967	1.00	0.00
ATOM	1212	CG1	VAL	A	81	-5.113	-2.615	-4.110	1.00	0.00
ATOM	1213	CG2	VAL	A	81	-5.077	-5.118	-4.194	1.00	0.00
ATOM	1214	H	VAL	A	81	-4.468	-5.313	-7.202	1.00	0.00
ATOM	1215	HA	VAL	A	81	-6.680	-3.791	-6.009	1.00	0.00

ATOM	1216	HB	VAL	A	81	-3.760	-3.813	-5.227	1.00	0.00
ATOM	1217	1HG1	VAL	A	81	-6.149	-2.337	-4.236	1.00	0.00
ATOM	1218	2HG1	VAL	A	81	-4.479	-1.794	-4.414	1.00	0.00
ATOM	1219	3HG1	VAL	A	81	-4.926	-2.847	-3.072	1.00	0.00
ATOM	1220	1HG2	VAL	A	81	-4.163	-5.456	-3.728	1.00	0.00
ATOM	1221	2HG2	VAL	A	81	-5.438	-5.878	-4.871	1.00	0.00
ATOM	1222	3HG2	VAL	A	81	-5.820	-4.930	-3.433	1.00	0.00
ATOM	1223	N	ASP	A	82	-6.257	-1.636	-7.144	1.00	0.00
ATOM	1224	CA	ASP	A	82	-6.060	-0.381	-7.860	1.00	0.00
ATOM	1225	C	ASP	A	82	-6.021	0.794	-6.888	1.00	0.00
ATOM	1226	O	ASP	A	82	-7.034	1.452	-6.651	1.00	0.00
ATOM	1227	CB	ASP	A	82	-7.175	-0.175	-8.888	1.00	0.00
ATOM	1228	CG	ASP	A	82	-6.650	0.328	-10.218	1.00	0.00
ATOM	1229	OD1	ASP	A	82	-6.214	1.497	-10.280	1.00	0.00
ATOM	1230	OD2	ASP	A	82	-6.671	-0.448	-11.197	1.00	0.00
ATOM	1231	H	ASP	A	82	-7.122	-1.813	-6.718	1.00	0.00
ATOM	1232	HA	ASP	A	82	-5.113	-0.438	-8.376	1.00	0.00
ATOM	1233	1HB	ASP	A	82	-7.680	-1.115	-9.055	1.00	0.00
ATOM	1234	2HB	ASP	A	82	-7.883	0.546	-8.505	1.00	0.00
ATOM	1235	N	SER	A	83	-4.846	1.049	-6.322	1.00	0.00
ATOM	1236	CA	SER	A	83	-4.675	2.141	-5.372	1.00	0.00
ATOM	1237	C	SER	A	83	-3.839	3.266	-5.975	1.00	0.00
ATOM	1238	O	SER	A	83	-3.296	3.128	-7.072	1.00	0.00
ATOM	1239	CB	SER	A	83	-4.014	1.627	-4.093	1.00	0.00
ATOM	1240	OG	SER	A	83	-3.085	0.597	-4.376	1.00	0.00
ATOM	1241	H	SER	A	83	-4.075	0.487	-6.548	1.00	0.00
ATOM	1242	HA	SER	A	83	-5.654	2.526	-5.131	1.00	0.00

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ATOM	1243	1HB	SER	A	83	-3.495	2.438	-3.606	1.00	0.00
ATOM	1244	2HB	SER	A	83	-4.773	1.237	-3.429	1.00	0.00
ATOM	1245	HG	SER	A	83	-3.357	-0.211	-3.935	1.00	0.00
ATOM	1246	N	LEU	A	84	-3.742	4.378	-5.253	1.00	0.00
ATOM	1247	CA	LEU	A	84	-2.972	5.527	-5.718	1.00	0.00
ATOM	1248	C	LEU	A	84	-2.092	6.085	-4.604	1.00	0.00
ATOM	1249	O	LEU	A	84	-2.591	6.646	-3.629	1.00	0.00
ATOM	1250	CB	LEU	A	84	-3.910	6.623	-6.236	1.00	0.00
ATOM	1251	CG	LEU	A	84	-3.319	7.545	-7.310	1.00	0.00
ATOM	1252	CD1	LEU	A	84	-1.881	7.917	-6.980	1.00	0.00
ATOM	1253	CD2	LEU	A	84	-3.401	6.889	-8.679	1.00	0.00
ATOM	1254	H	LEU	A	84	-4.198	4.427	-4.387	1.00	0.00
ATOM	1255	HA	LEU	A	84	-2.340	5.197	-6.529	1.00	0.00
ATOM	1256	1HB	LEU	A	84	-4.790	6.148	-6.644	1.00	0.00
ATOM	1257	2HB	LEU	A	84	-4.209	7.234	-5.397	1.00	0.00
ATOM	1258	HG	LEU	A	84	-3.896	8.458	-7.344	1.00	0.00
ATOM	1259	1HD1	LEU	A	84	-1.865	8.573	-6.122	1.00	0.00
ATOM	1260	2HD1	LEU	A	84	-1.436	8.418	-7.826	1.00	0.00
ATOM	1261	3HD1	LEU	A	84	-1.319	7.022	-6.759	1.00	0.00
ATOM	1262	1HD2	LEU	A	84	-4.277	7.248	-9.198	1.00	0.00
ATOM	1263	2HD2	LEU	A	84	-3.466	5.817	-8.562	1.00	0.00
ATOM	1264	3HD2	LEU	A	84	-2.518	7.136	-9.250	1.00	0.00
ATOM	1265	N	CYS	A	85	-0.780	5.937	-4.759	1.00	0.00
ATOM	1266	CA	CYS	A	85	0.166	6.435	-3.766	1.00	0.00
ATOM	1267	C	CYS	A	85	0.214	7.960	-3.792	1.00	0.00
ATOM	1268	O	CYS	A	85	1.159	8.553	-4.313	1.00	0.00
ATOM	1269	CB	CYS	A	85	1.562	5.862	-4.021	1.00	0.00

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ATOM	1270	SG	CYS	A	85	1.810	4.199	-3.357	1.00	0.00
ATOM	1271	H	CYS	A	85	-0.439	5.486	-5.560	1.00	0.00
ATOM	1272	HA	CYS	A	85	-0.175	6.112	-2.794	1.00	0.00
ATOM	1273	1HB	CYS	A	85	1.737	5.819	-5.085	1.00	0.00
ATOM	1274	2HB	CYS	A	85	2.298	6.510	-3.567	1.00	0.00
ATOM	1275	HG	CYS	A	85	2.617	3.846	-3.736	1.00	0.00
ATOM	1276	N	ASN	A	86	-0.815	8.590	-3.233	1.00	0.00
ATOM	1277	CA	ASN	A	86	-0.895	10.046	-3.199	1.00	0.00
ATOM	1278	C	ASN	A	86	0.127	10.629	-2.229	1.00	0.00
ATOM	1279	O	ASN	A	86	0.556	9.962	-1.287	1.00	0.00
ATOM	1280	CB	ASN	A	86	-2.303	10.492	-2.800	1.00	0.00
ATOM	1281	CG	ASN	A	86	-3.258	10.510	-3.978	1.00	0.00
ATOM	1282	OD1	ASN	A	86	-3.505	11.557	-4.576	1.00	0.00
ATOM	1283	ND2	ASN	A	86	-3.801	9.346	-4.317	1.00	0.00
ATOM	1284	H	ASN	A	86	-1.541	8.063	-2.838	1.00	0.00
ATOM	1285	HA	ASN	A	86	-0.680	10.412	-4.191	1.00	0.00
ATOM	1286	1HB	ASN	A	86	-2.691	9.812	-2.056	1.00	0.00
ATOM	1287	2HB	ASN	A	86	-2.254	11.486	-2.383	1.00	0.00
ATOM	1288	1HD2	ASN	A	86	-3.559	8.553	-3.796	1.00	0.00
ATOM	1289	2HD2	ASN	A	86	-4.423	9.329	-5.075	1.00	0.00
ATOM	1290	N	PHE	A	87	0.512	11.878	-2.467	1.00	0.00
ATOM	1291	CA	PHE	A	87	1.483	12.555	-1.614	1.00	0.00
ATOM	1292	C	PHE	A	87	1.111	14.023	-1.425	1.00	0.00
ATOM	1293	O	PHE	A	87	0.413	14.607	-2.253	1.00	0.00
ATOM	1294	CB	PHE	A	87	2.885	12.445	-2.216	1.00	0.00
ATOM	1295	CG	PHE	A	87	3.605	11.186	-1.831	1.00	0.00
ATOM	1296	CD1	PHE	A	87	3.224	9.964	-2.363	1.00	0.00

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ATOM	1297	CD2	PHE	A	87	4.662	11.222	-0.935	1.00	0.00
ATOM	1298	CE1	PHE	A	87	3.883	8.803	-2.009	1.00	0.00
ATOM	1299	CE2	PHE	A	87	5.325	10.064	-0.577	1.00	0.00
ATOM	1300	CZ	PHE	A	87	4.935	8.853	-1.115	1.00	0.00
ATOM	1301	H	PHE	A	87	0.134	12.358	-3.233	1.00	0.00
ATOM	1302	HA	PHE	A	87	1.475	12.067	-0.651	1.00	0.00
ATOM	1303	1HB	PHE	A	87	2.810	12.469	-3.292	1.00	0.00
ATOM	1304	2HB	PHE	A	87	3.479	13.285	-1.883	1.00	0.00
ATOM	1305	HD1	PHE	A	87	2.402	9.925	-3.063	1.00	0.00
ATOM	1306	HD2	PHE	A	87	4.966	12.169	-0.514	1.00	0.00
ATOM	1307	HE1	PHE	A	87	3.576	7.856	-2.431	1.00	0.00
ATOM	1308	HE2	PHE	A	87	6.146	10.106	0.122	1.00	0.00
ATOM	1309	HZ	PHE	A	87	5.452	7.947	-0.836	1.00	0.00
ATOM	1310	N	SER	A	88	1.584	14.611	-0.331	1.00	0.00
ATOM	1311	CA	SER	A	88	1.301	16.010	-0.035	1.00	0.00
ATOM	1312	C	SER	A	88	1.885	16.922	-1.111	1.00	0.00
ATOM	1313	O	SER	A	88	2.703	16.491	-1.923	1.00	0.00
ATOM	1314	CB	SER	A	88	1.869	16.387	1.335	1.00	0.00
ATOM	1315	OG	SER	A	88	0.861	16.360	2.331	1.00	0.00
ATOM	1316	H	SER	A	88	2.134	14.092	0.291	1.00	0.00
ATOM	1317	HA	SER	A	88	0.229	16.136	-0.017	1.00	0.00
ATOM	1318	1HB	SER	A	88	2.644	15.685	1.606	1.00	0.00
ATOM	1319	2HB	SER	A	88	2.286	17.383	1.289	1.00	0.00
ATOM	1320	HG	SER	A	88	0.103	16.868	2.034	1.00	0.00
ATOM	1321	N	PRO	A	89	1.471	18.201	-1.131	1.00	0.00
ATOM	1322	CA	PRO	A	89	1.959	19.173	-2.115	1.00	0.00
ATOM	1323	C	PRO	A	89	3.430	19.517	-1.905	1.00	0.00

ATOM 1324	O	PRO A	89	4.192	19.644	-2.862	1.00	0.00
ATOM 1325	CB	PRO A	89	1.080	20.402	-1.871	1.00	0.00
ATOM 1326	CG	PRO A	89	0.629	20.273	-0.458	1.00	0.00
ATOM 1327	CD	PRO A	89	0.498	18.798	-0.198	1.00	0.00
ATOM 1328	HA	PRO A	89	1.815	18.818	-3.125	1.00	0.00
ATOM 1329	1HB	PRO A	89	1.664	21.300	-2.020	1.00	0.00
ATOM 1330	2HB	PRO A	89	0.244	20.392	-2.554	1.00	0.00
ATOM 1331	1HG	PRO A	89	1.364	20.707	0.204	1.00	0.00
ATOM 1332	2HG	PRO A	89	-0.326	20.763	-0.331	1.00	0.00
ATOM 1333	1HD	PRO A	89	0.754	18.571	0.826	1.00	0.00
ATOM 1334	2HD	PRO A	89	-0.505	18.464	-0.421	1.00	0.00
ATOM 1335	N	LEU A	90	3.822	19.666	-0.643	1.00	0.00
ATOM 1336	CA	LEU A	90	5.203	19.996	-0.307	1.00	0.00
ATOM 1337	C	LEU A	90	6.162	18.931	-0.832	1.00	0.00
ATOM 1338	O	LEU A	90	7.319	19.220	-1.135	1.00	0.00
ATOM 1339	CB	LEU A	90	5.360	20.135	1.210	1.00	0.00
ATOM 1340	CG	LEU A	90	4.970	21.502	1.777	1.00	0.00
ATOM 1341	CD1	LEU A	90	3.461	21.604	1.930	1.00	0.00
ATOM 1342	CD2	LEU A	90	5.659	21.739	3.112	1.00	0.00
ATOM 1343	H	LEU A	90	3.169	19.552	0.078	1.00	0.00
ATOM 1344	HA	LEU A	90	5.442	20.939	-0.772	1.00	0.00
ATOM 1345	1HB	LEU A	90	4.747	19.383	1.684	1.00	0.00
ATOM 1346	2HB	LEU A	90	6.393	19.948	1.461	1.00	0.00
ATOM 1347	HG	LEU A	90	5.289	22.273	1.092	1.00	0.00
ATOM 1348	1HD1	LEU A	90	3.072	20.671	2.309	1.00	0.00
ATOM 1349	2HD1	LEU A	90	3.015	21.815	0.969	1.00	0.00
ATOM 1350	3HD1	LEU A	90	3.221	22.401	2.619	1.00	0.00



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ATOM	1351	1HD2	LEU	A	90	5.568	20.856	3.728	1.00	0.00
ATOM	1352	2HD2	LEU	A	90	5.197	22.577	3.613	1.00	0.00
ATOM	1353	3HD2	LEU	A	90	6.704	21.954	2.944	1.00	0.00
ATOM	1354	N	ALA	A	91	5.672	17.699	-0.937	1.00	0.00
ATOM	1355	CA	ALA	A	91	6.486	16.592	-1.425	1.00	0.00
ATOM	1356	C	ALA	A	91	7.033	16.883	-2.819	1.00	0.00
ATOM	1357	O	ALA	A	91	6.325	16.736	-3.817	1.00	0.00
ATOM	1358	CB	ALA	A	91	5.675	15.305	-1.434	1.00	0.00
ATOM	1359	H	ALA	A	91	4.743	17.529	-0.679	1.00	0.00
ATOM	1360	HA	ALA	A	91	7.315	16.461	-0.745	1.00	0.00
ATOM	1361	1HB	ALA	A	91	6.313	14.474	-1.168	1.00	0.00
ATOM	1362	2HB	ALA	A	91	5.268	15.142	-2.421	1.00	0.00
ATOM	1363	3HB	ALA	A	91	4.869	15.382	-0.720	1.00	0.00
ATOM	1364	N	ARG	A	92	8.294	17.295	-2.880	1.00	0.00
ATOM	1365	CA	ARG	A	92	8.937	17.606	-4.152	1.00	0.00
ATOM	1366	C	ARG	A	92	10.150	16.709	-4.382	1.00	0.00
ATOM	1367	O	ARG	A	92	11.117	17.110	-5.029	1.00	0.00
ATOM	1368	CB	ARG	A	92	9.357	19.078	-4.188	1.00	0.00
ATOM	1369	CG	ARG	A	92	8.639	19.889	-5.257	1.00	0.00
ATOM	1370	CD	ARG	A	92	9.621	20.612	-6.166	1.00	0.00
ATOM	1371	NE	ARG	A	92	9.877	19.869	-7.396	1.00	0.00
ATOM	1372	CZ	ARG	A	92	10.927	20.084	-8.187	1.00	0.00
ATOM	1373	NH1	ARG	A	92	11.818	21.017	-7.879	1.00	0.00
ATOM	1374	NH2	ARG	A	92	11.084	19.362	-9.289	1.00	0.00
ATOM	1375	H	ARG	A	92	8.807	17.391	-2.051	1.00	0.00
ATOM	1376	HA	ARG	A	92	8.218	17.427	-4.938	1.00	0.00
ATOM	1377	1HB	ARG	A	92	9.144	19.524	-3.228	1.00	0.00

ATOM	1378	2HB	ARG	A	92	10.419	19.136	-4.375	1.00	0.00
ATOM	1379	1HG	ARG	A	92	8.036	19.222	-5.856	1.00	0.00
ATOM	1380	2HG	ARG	A	92	8.004	20.617	-4.775	1.00	0.00
ATOM	1381	1HD	ARG	A	92	9.212	21.579	-6.419	1.00	0.00
ATOM	1382	2HD	ARG	A	92	10.553	20.744	-5.635	1.00	0.00
ATOM	1383	HE	ARG	A	92	9.234	19.173	-7.649	1.00	0.00
ATOM	1384	1HH1	ARG	A	92	11.705	21.564	-7.051	1.00	0.00
ATOM	1385	2HH1	ARG	A	92	12.604	21.174	-8.478	1.00	0.00
ATOM	1386	1HH2	ARG	A	92	10.416	18.658	-9.526	1.00	0.00
ATOM	1387	2HH2	ARG	A	92	11.873	19.524	-9.883	1.00	0.00
ATOM	1388	N	ARG	A	93	10.090	15.493	-3.848	1.00	0.00
ATOM	1389	CA	ARG	A	93	11.183	14.540	-3.995	1.00	0.00
ATOM	1390	C	ARG	A	93	10.720	13.126	-3.654	1.00	0.00
ATOM	1391	O	ARG	A	93	11.117	12.559	-2.636	1.00	0.00
ATOM	1392	CB	ARG	A	93	12.358	14.937	-3.097	1.00	0.00
ATOM	1393	CG	ARG	A	93	13.694	14.384	-3.565	1.00	0.00
ATOM	1394	CD	ARG	A	93	14.187	13.270	-2.655	1.00	0.00
ATOM	1395	NE	ARG	A	93	15.121	12.378	-3.338	1.00	0.00
ATOM	1396	CZ	ARG	A	93	15.451	11.166	-2.893	1.00	0.00
ATOM	1397	NH1	ARG	A	93	14.924	10.700	-1.768	1.00	0.00
ATOM	1398	NH2	ARG	A	93	16.307	10.420	-3.574	1.00	0.00
ATOM	1399	H	ARG	A	93	9.292	15.231	-3.343	1.00	0.00
ATOM	1400	HA	ARG	A	93	11.506	14.561	-5.025	1.00	0.00
ATOM	1401	1HB	ARG	A	93	12.427	16.014	-3.074	1.00	0.00
ATOM	1402	2HB	ARG	A	93	12.170	14.575	-2.097	1.00	0.00
ATOM	1403	1HG	ARG	A	93	13.582	13.993	-4.565	1.00	0.00
ATOM	1404	2HG	ARG	A	93	14.422	15.182	-3.567	1.00	0.00

ATOM	1405	1HD	ARG	A	93	14.684	13.711	-1.804	1.00	0.00
ATOM	1406	2HD	ARG	A	93	13.337	12.696	-2.317	1.00	0.00
ATOM	1407	HE	ARG	A	93	15.525	12.697	-4.171	1.00	0.00
ATOM	1408	1HH1	ARG	A	93	14.277	11.257	-1.248	1.00	0.00
ATOM	1409	2HH1	ARG	A	93	15.174	9.789	-1.438	1.00	0.00
ATOM	1410	1HH2	ARG	A	93	16.707	10.767	-4.423	1.00	0.00
ATOM	1411	2HH2	ARG	A	93	16.555	9.510	-3.241	1.00	0.00
ATOM	1412	N	VAL	A	94	9.877	12.563	-4.513	1.00	0.00
ATOM	1413	CA	VAL	A	94	9.360	11.215	-4.303	1.00	0.00
ATOM	1414	C	VAL	A	94	9.371	10.414	-5.600	1.00	0.00
ATOM	1415	O	VAL	A	94	8.492	10.573	-6.448	1.00	0.00
ATOM	1416	CB	VAL	A	94	7.924	11.244	-3.745	1.00	0.00
ATOM	1417	CG1	VAL	A	94	7.478	9.847	-3.345	1.00	0.00
ATOM	1418	CG2	VAL	A	94	7.831	12.200	-2.565	1.00	0.00
ATOM	1419	H	VAL	A	94	9.596	13.063	-5.307	1.00	0.00
ATOM	1420	HA	VAL	A	94	9.995	10.722	-3.582	1.00	0.00
ATOM	1421	HB	VAL	A	94	7.264	11.600	-4.522	1.00	0.00
ATOM	1422	1HG1	VAL	A	94	8.074	9.502	-2.514	1.00	0.00
ATOM	1423	2HG1	VAL	A	94	7.603	9.176	-4.182	1.00	0.00
ATOM	1424	3HG1	VAL	A	94	6.437	9.871	-3.056	1.00	0.00
ATOM	1425	1HG2	VAL	A	94	8.298	11.752	-1.701	1.00	0.00
ATOM	1426	2HG2	VAL	A	94	6.792	12.403	-2.347	1.00	0.00
ATOM	1427	3HG2	VAL	A	94	8.334	13.124	-2.809	1.00	0.00
ATOM	1428	N	ASP	A	95	10.373	9.553	-5.749	1.00	0.00
ATOM	1429	CA	ASP	A	95	10.500	8.726	-6.944	1.00	0.00
ATOM	1430	C	ASP	A	95	9.551	7.534	-6.883	1.00	0.00
ATOM	1431	O	ASP	A	95	9.096	7.144	-5.808	1.00	0.00

ATOM	1432	CB	ASP	A	95	11.941	8.240	-7.102	1.00	0.00
ATOM	1433	CG	ASP	A	95	12.831	9.270	-7.768	1.00	0.00
ATOM	1434	OD1	ASP	A	95	13.255	9.034	-8.919	1.00	0.00
ATOM	1435	OD2	ASP	A	95	13.103	10.314	-7.139	1.00	0.00
ATOM	1436	H	ASP	A	95	11.043	9.472	-5.038	1.00	0.00
ATOM	1437	HA	ASP	A	95	10.239	9.336	-7.797	1.00	0.00
ATOM	1438	1HB	ASP	A	95	12.348	8.016	-6.127	1.00	0.00
ATOM	1439	2HB	ASP	A	95	11.947	7.342	-7.703	1.00	0.00
ATOM	1440	N	ARG	A	96	9.258	6.957	-8.044	1.00	0.00
ATOM	1441	CA	ARG	A	96	8.364	5.809	-8.123	1.00	0.00
ATOM	1442	C	ARG	A	96	8.984	4.589	-7.448	1.00	0.00
ATOM	1443	O	ARG	A	96	8.277	3.743	-6.901	1.00	0.00
ATOM	1444	CB	ARG	A	96	8.039	5.487	-9.583	1.00	0.00
ATOM	1445	CG	ARG	A	96	9.265	5.166	-10.423	1.00	0.00
ATOM	1446	CD	ARG	A	96	8.891	4.895	-11.871	1.00	0.00
ATOM	1447	NE	ARG	A	96	10.068	4.702	-12.713	1.00	0.00
ATOM	1448	CZ	ARG	A	96	10.817	5.698	-13.181	1.00	0.00
ATOM	1449	NH1	ARG	A	96	10.514	6.957	-12.891	1.00	0.00
ATOM	1450	NH2	ARG	A	96	11.871	5.434	-13.940	1.00	0.00
ATOM	1451	H	ARG	A	96	9.653	7.314	-8.867	1.00	0.00
ATOM	1452	HA	ARG	A	96	7.451	6.064	-7.607	1.00	0.00
ATOM	1453	1HB	ARG	A	96	7.375	4.637	-9.613	1.00	0.00
ATOM	1454	2HB	ARG	A	96	7.540	6.338	-10.023	1.00	0.00
ATOM	1455	1HG	ARG	A	96	9.943	6.006	-10.388	1.00	0.00
ATOM	1456	2HG	ARG	A	96	9.749	4.291	-10.014	1.00	0.00
ATOM	1457	1HD	ARG	A	96	8.282	4.003	-11.911	1.00	0.00
ATOM	1458	2HD	ARG	A	96	8.324	5.734	-12.247	1.00	0.00

ATOM 1459	HE	ARG	A	96	10.315	3.781	-12.943	1.00	0.00
ATOM 1460	1HH1	ARG	A	96	9.719	7.163	-12.320	1.00	0.00
ATOM 1461	2HH1	ARG	A	96	11.080	7.702	-13.245	1.00	0.00
ATOM 1462	1HH2	ARG	A	96	12.104	4.488	-14.161	1.00	0.00
ATOM 1463	2HH2	ARG	A	96	12.434	6.183	-14.292	1.00	0.00
ATOM 1464	N	VAL	A	97	10.310	4.505	-7.492	1.00	0.00
ATOM 1465	CA	VAL	A	97	11.026	3.389	-6.886	1.00	0.00
ATOM 1466	C	VAL	A	97	11.031	3.500	-5.364	1.00	0.00
ATOM 1467	O	VAL	A	97	11.106	2.493	-4.660	1.00	0.00
ATOM 1468	CB	VAL	A	97	12.480	3.314	-7.388	1.00	0.00
ATOM 1469	CG1	VAL	A	97	13.149	2.040	-6.898	1.00	0.00
ATOM 1470	CG2	VAL	A	97	12.524	3.399	-8.906	1.00	0.00
ATOM 1471	H	VAL	A	97	10.819	5.211	-7.942	1.00	0.00
ATOM 1472	HA	VAL	A	97	10.522	2.477	-7.168	1.00	0.00
ATOM 1473	HB	VAL	A	97	13.023	4.157	-6.986	1.00	0.00
ATOM 1474	1HG1	VAL	A	97	13.836	1.682	-7.651	1.00	0.00
ATOM 1475	2HG1	VAL	A	97	12.398	1.288	-6.710	1.00	0.00
ATOM 1476	3HG1	VAL	A	97	13.690	2.245	-5.986	1.00	0.00
ATOM 1477	1HG2	VAL	A	97	12.007	2.551	-9.330	1.00	0.00
ATOM 1478	2HG2	VAL	A	97	13.552	3.396	-9.238	1.00	0.00
ATOM 1479	3HG2	VAL	A	97	12.044	4.311	-9.231	1.00	0.00
ATOM 1480	N	ALA	A	98	10.953	4.729	-4.862	1.00	0.00
ATOM 1481	CA	ALA	A	98	10.950	4.968	-3.424	1.00	0.00
ATOM 1482	C	ALA	A	98	9.805	4.226	-2.744	1.00	0.00
ATOM 1483	O	ALA	A	98	10.027	3.388	-1.871	1.00	0.00
ATOM 1484	CB	ALA	A	98	10.858	6.460	-3.139	1.00	0.00
ATOM 1485	H	ALA	A	98	10.897	5.492	-5.474	1.00	0.00

ATOM 1486	HA	ALA A	98	11.887	4.607	-3.024	1.00	0.00
ATOM 1487	1HB	ALA A	98	10.321	6.947	-3.939	1.00	0.00
ATOM 1488	2HB	ALA A	98	11.852	6.875	-3.068	1.00	0.00
ATOM 1489	3HB	ALA A	98	10.336	6.616	-2.206	1.00	0.00
ATOM 1490	N	ILE A	99	8.578	4.540	-3.150	1.00	0.00
ATOM 1491	CA	ILE A	99	7.398	3.901	-2.580	1.00	0.00
ATOM 1492	C	ILE A	99	7.360	2.414	-2.919	1.00	0.00
ATOM 1493	O	ILE A	99	6.734	1.623	-2.212	1.00	0.00
ATOM 1494	CB	ILE A	99	6.099	4.567	-3.078	1.00	0.00
ATOM 1495	CG1	ILE A	99	6.160	6.080	-2.864	1.00	0.00
ATOM 1496	CG2	ILE A	99	4.893	3.977	-2.362	1.00	0.00
ATOM 1497	CD1	ILE A	99	5.368	6.868	-3.886	1.00	0.00
ATOM 1498	H	ILE A	99	8.464	5.216	-3.851	1.00	0.00
ATOM 1499	HA	ILE A	99	7.446	4.014	-1.506	1.00	0.00
ATOM 1500	HB	ILE A	99	5.996	4.363	-4.133	1.00	0.00
ATOM 1501	1HG1	ILE A	99	5.765	6.316	-1.888	1.00	0.00
ATOM 1502	2HG1	ILE A	99	7.189	6.405	-2.919	1.00	0.00
ATOM 1503	1HG2	ILE A	99	4.160	4.751	-2.193	1.00	0.00
ATOM 1504	2HG2	ILE A	99	5.203	3.562	-1.414	1.00	0.00
ATOM 1505	3HG2	ILE A	99	4.459	3.197	-2.971	1.00	0.00
ATOM 1506	1HD1	ILE A	99	5.498	7.924	-3.706	1.00	0.00
ATOM 1507	2HD1	ILE A	99	4.322	6.614	-3.803	1.00	0.00
ATOM 1508	3HD1	ILE A	99	5.719	6.625	-4.877	1.00	0.00
ATOM 1509	N	TYR A	100	8.032	2.038	-4.002	1.00	0.00
ATOM 1510	CA	TYR A	100	8.072	0.645	-4.432	1.00	0.00
ATOM 1511	C	TYR A	100	9.009	-0.172	-3.548	1.00	0.00
ATOM 1512	O	TYR A	100	8.686	-1.293	-3.153	1.00	0.00

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ATOM	1513	CB	TYR A 100	8.523	0.552	-5.891	1.00	0.00
ATOM	1514	CG	TYR A 100	8.406	-0.839	-6.473	1.00	0.00
ATOM	1515	CD1	TYR A 100	9.539	-1.578	-6.788	1.00	0.00
ATOM	1516	CD2	TYR A 100	7.162	-1.412	-6.707	1.00	0.00
ATOM	1517	CE1	TYR A 100	9.437	-2.849	-7.321	1.00	0.00
ATOM	1518	CE2	TYR A 100	7.051	-2.682	-7.239	1.00	0.00
ATOM	1519	CZ	TYR A 100	8.191	-3.397	-7.544	1.00	0.00
ATOM	1520	OH	TYR A 100	8.085	-4.661	-8.074	1.00	0.00
ATOM	1521	H	TYR A 100	8.512	2.712	-4.527	1.00	0.00
ATOM	1522	HA	TYR A 100	7.074	0.242	-4.346	1.00	0.00
ATOM	1523	1HB	TYR A 100	7.917	1.214	-6.490	1.00	0.00
ATOM	1524	2HB	TYR A 100	9.557	0.856	-5.960	1.00	0.00
ATOM	1525	HD1	TYR A 100	10.513	-1.146	-6.612	1.00	0.00
ATOM	1526	HD2	TYR A 100	6.271	-0.849	-6.468	1.00	0.00
ATOM	1527	HE1	TYR A 100	10.329	-3.408	-7.559	1.00	0.00
ATOM	1528	HE2	TYR A 100	6.075	-3.111	-7.415	1.00	0.00
ATOM	1529	HH	TYR A 100	8.116	-5.309	-7.366	1.00	0.00
ATOM	1530	N	GLU A 101	10.173	0.393	-3.245	1.00	0.00
ATOM	1531	CA	GLU A 101	11.158	-0.285	-2.411	1.00	0.00
ATOM	1532	C	GLU A 101	10.733	-0.284	-0.947	1.00	0.00
ATOM	1533	O	GLU A 101	10.820	-1.305	-0.264	1.00	0.00
ATOM	1534	CB	GLU A 101	12.525	0.385	-2.558	1.00	0.00
ATOM	1535	CG	GLU A 101	13.334	-0.133	-3.735	1.00	0.00
ATOM	1536	CD	GLU A 101	14.820	-0.198	-3.440	1.00	0.00
ATOM	1537	OE1	GLU A 101	15.400	0.850	-3.085	1.00	0.00
ATOM	1538	OE2	GLU A 101	15.402	-1.296	-3.562	1.00	0.00
ATOM	1539	H	GLU A 101	10.375	1.288	-3.591	1.00	0.00

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ATOM	1540	HA	GLU A 101	11.231	-1.307	-2.751	1.00	0.00
ATOM	1541	1HB	GLU A 101	12.380	1.447	-2.688	1.00	0.00
ATOM	1542	2HB	GLU A 101	13.094	0.217	-1.656	1.00	0.00
ATOM	1543	1HG	GLU A 101	12.989	-1.126	-3.983	1.00	0.00
ATOM	1544	2HG	GLU A 101	13.178	0.523	-4.579	1.00	0.00
ATOM	1545	N	GLU A 102	10.275	0.868	-0.469	1.00	0.00
ATOM	1546	CA	GLU A 102	9.838	1.001	0.917	1.00	0.00
ATOM	1547	C	GLU A 102	8.632	0.110	1.198	1.00	0.00
ATOM	1548	O	GLU A 102	8.444	-0.363	2.318	1.00	0.00
ATOM	1549	CB	GLU A 102	9.495	2.459	1.227	1.00	0.00
ATOM	1550	CG	GLU A 102	10.701	3.382	1.216	1.00	0.00
ATOM	1551	CD	GLU A 102	10.330	4.823	0.926	1.00	0.00
ATOM	1552	OE1	GLU A 102	10.955	5.728	1.517	1.00	0.00
ATOM	1553	OE2	GLU A 102	9.415	5.046	0.105	1.00	0.00
ATOM	1554	H	GLU A 102	10.230	1.647	-1.061	1.00	0.00
ATOM	1555	HA	GLU A 102	10.654	0.690	1.551	1.00	0.00
ATOM	1556	1HB	GLU A 102	8.788	2.815	0.492	1.00	0.00
ATOM	1557	2HB	GLU A 102	9.039	2.509	2.205	1.00	0.00
ATOM	1558	1HG	GLU A 102	11.182	3.338	2.182	1.00	0.00
ATOM	1559	2HG	GLU A 102	11.390	3.043	0.456	1.00	0.00
ATOM	1560	N	PHE A 103	7.813	-0.111	0.174	1.00	0.00
ATOM	1561	CA	PHE A 103	6.623	-0.944	0.314	1.00	0.00
ATOM	1562	C	PHE A 103	6.995	-2.422	0.371	1.00	0.00
ATOM	1563	O	PHE A 103	6.418	-3.188	1.142	1.00	0.00
ATOM	1564	CB	PHE A 103	5.662	-0.693	-0.848	1.00	0.00
ATOM	1565	CG	PHE A 103	4.365	-1.442	-0.728	1.00	0.00
ATOM	1566	CD1	PHE A 103	3.933	-2.275	-1.748	1.00	0.00



ATOM	1567	CD2	PHE A 103	3.578	-1.314	0.405	1.00	0.00
ATOM	1568	CE1	PHE A 103	2.741	-2.965	-1.641	1.00	0.00
ATOM	1569	CE2	PHE A 103	2.386	-2.001	0.519	1.00	0.00
ATOM	1570	CZ	PHE A 103	1.966	-2.828	-0.505	1.00	0.00
ATOM	1571	H	PHE A 103	8.013	0.295	-0.695	1.00	0.00
ATOM	1572	HA	PHE A 103	6.136	-0.671	1.238	1.00	0.00
ATOM	1573	1HB	PHE A 103	5.432	0.361	-0.895	1.00	0.00
ATOM	1574	2HB	PHE A 103	6.137	-0.994	-1.771	1.00	0.00
ATOM	1575	HD1	PHE A 103	4.539	-2.382	-2.636	1.00	0.00
ATOM	1576	HD2	PHE A 103	3.906	-0.668	1.207	1.00	0.00
ATOM	1577	HE1	PHE A 103	2.416	-3.610	-2.443	1.00	0.00
ATOM	1578	HE2	PHE A 103	1.781	-1.892	1.408	1.00	0.00
ATOM	1579	HZ	PHE A 103	1.033	-3.366	-0.419	1.00	0.00
ATOM	1580	N	LEU A 104	7.962	-2.817	-0.450	1.00	0.00
ATOM	1581	CA	LEU A 104	8.410	-4.204	-0.494	1.00	0.00
ATOM	1582	C	LEU A 104	9.201	-4.565	0.759	1.00	0.00
ATOM	1583	O	LEU A 104	9.158	-5.703	1.227	1.00	0.00
ATOM	1584	CB	LEU A 104	9.266	-4.447	-1.738	1.00	0.00
ATOM	1585	CG	LEU A 104	8.567	-4.169	-3.070	1.00	0.00
ATOM	1586	CD1	LEU A 104	9.577	-3.743	-4.124	1.00	0.00
ATOM	1587	CD2	LEU A 104	7.797	-5.397	-3.533	1.00	0.00
ATOM	1588	H	LEU A 104	8.385	-2.159	-1.042	1.00	0.00
ATOM	1589	HA	LEU A 104	7.534	-4.833	-0.544	1.00	0.00
ATOM	1590	1HB	LEU A 104	10.141	-3.817	-1.676	1.00	0.00
ATOM	1591	2HB	LEU A 104	9.585	-5.478	-1.734	1.00	0.00
ATOM	1592	HG	LEU A 104	7.862	-3.361	-2.938	1.00	0.00
ATOM	1593	1HD1	LEU A 104	9.979	-4.619	-4.612	1.00	0.00

ATOM	1594	2HD1	LEU	A	104	10.379	-3.195	-3.653	1.00	0.00
ATOM	1595	3HD1	LEU	A	104	9.091	-3.114	-4.855	1.00	0.00
ATOM	1596	1HD2	LEU	A	104	7.139	-5.728	-2.744	1.00	0.00
ATOM	1597	2HD2	LEU	A	104	8.492	-6.187	-3.777	1.00	0.00
ATOM	1598	3HD2	LEU	A	104	7.214	-5.148	-4.407	1.00	0.00
ATOM	1599	N	ARG	A	105	9.923	-3.588	1.300	1.00	0.00
ATOM	1600	CA	ARG	A	105	10.726	-3.806	2.499	1.00	0.00
ATOM	1601	C	ARG	A	105	9.838	-4.088	3.707	1.00	0.00
ATOM	1602	O	ARG	A	105	10.206	-4.859	4.593	1.00	0.00
ATOM	1603	CB	ARG	A	105	11.608	-2.587	2.775	1.00	0.00
ATOM	1604	CG	ARG	A	105	12.781	-2.882	3.696	1.00	0.00
ATOM	1605	CD	ARG	A	105	13.526	-1.612	4.074	1.00	0.00
ATOM	1606	NE	ARG	A	105	14.974	-1.807	4.073	1.00	0.00
ATOM	1607	CZ	ARG	A	105	15.832	-0.996	4.687	1.00	0.00
ATOM	1608	NH1	ARG	A	105	15.392	0.064	5.354	1.00	0.00
ATOM	1609	NH2	ARG	A	105	17.133	-1.245	4.637	1.00	0.00
ATOM	1610	H	ARG	A	105	9.918	-2.702	0.882	1.00	0.00
ATOM	1611	HA	ARG	A	105	11.357	-4.663	2.324	1.00	0.00
ATOM	1612	1HB	ARG	A	105	11.998	-2.220	1.837	1.00	0.00
ATOM	1613	2HB	ARG	A	105	11.005	-1.816	3.231	1.00	0.00
ATOM	1614	1HG	ARG	A	105	12.411	-3.351	4.596	1.00	0.00
ATOM	1615	2HG	ARG	A	105	13.462	-3.552	3.192	1.00	0.00
ATOM	1616	1HD	ARG	A	105	13.276	-0.838	3.364	1.00	0.00
ATOM	1617	2HD	ARG	A	105	13.214	-1.308	5.063	1.00	0.00
ATOM	1618	HE	ARG	A	105	15.326	-2.583	3.588	1.00	0.00
ATOM	1619	1HH1	ARG	A	105	14.413	0.259	5.397	1.00	0.00
ATOM	1620	2HH1	ARG	A	105	16.043	0.670	5.813	1.00	0.00

ATOM	1621	1HH2	ARG	A	105	17.470	-2.043	4.137	1.00	0.00
ATOM	1622	2HH2	ARG	A	105	17.778	-0.636	5.098	1.00	0.00
ATOM	1623	N	MET	A	106	8.669	-3.456	3.738	1.00	0.00
ATOM	1624	CA	MET	A	106	7.730	-3.639	4.840	1.00	0.00
ATOM	1625	C	MET	A	106	6.846	-4.863	4.615	1.00	0.00
ATOM	1626	O	MET	A	106	6.294	-5.420	5.563	1.00	0.00
ATOM	1627	CB	MET	A	106	6.860	-2.393	5.007	1.00	0.00
ATOM	1628	CG	MET	A	106	6.329	-2.210	6.420	1.00	0.00
ATOM	1629	SD	MET	A	106	7.265	-0.991	7.363	1.00	0.00
ATOM	1630	CE	MET	A	106	6.940	0.493	6.414	1.00	0.00
ATOM	1631	H	MET	A	106	8.433	-2.852	3.004	1.00	0.00
ATOM	1632	HA	MET	A	106	8.304	-3.786	5.742	1.00	0.00
ATOM	1633	1HB	MET	A	106	7.444	-1.522	4.749	1.00	0.00
ATOM	1634	2HB	MET	A	106	6.018	-2.463	4.335	1.00	0.00
ATOM	1635	1HG	MET	A	106	5.301	-1.890	6.365	1.00	0.00
ATOM	1636	2HG	MET	A	106	6.381	-3.160	6.934	1.00	0.00
ATOM	1637	1HE	MET	A	106	7.013	1.355	7.061	1.00	0.00
ATOM	1638	2HE	MET	A	106	5.947	0.441	5.993	1.00	0.00
ATOM	1639	3HE	MET	A	106	7.664	0.577	5.618	1.00	0.00
ATOM	1640	N	THR	A	107	6.714	-5.276	3.358	1.00	0.00
ATOM	1641	CA	THR	A	107	5.893	-6.434	3.018	1.00	0.00
ATOM	1642	C	THR	A	107	6.745	-7.693	2.891	1.00	0.00
ATOM	1643	O	THR	A	107	6.446	-8.576	2.089	1.00	0.00
ATOM	1644	CB	THR	A	107	5.136	-6.182	1.714	1.00	0.00
ATOM	1645	OG1	THR	A	107	6.039	-6.002	0.637	1.00	0.00
ATOM	1646	CG2	THR	A	107	4.238	-4.965	1.769	1.00	0.00
ATOM	1647	H	THR	A	107	7.176	-4.792	2.642	1.00	0.00

ATOM 1648	HA	THR A 107	5.179	-6.576	3.815	1.00	0.00
ATOM 1649	HB	THR A 107	4.517	-7.040	1.498	1.00	0.00
ATOM 1650	HG1	THR A 107	5.547	-5.802	-0.164	1.00	0.00
ATOM 1651	1HG2	THR A 107	4.480	-4.301	0.952	1.00	0.00
ATOM 1652	2HG2	THR A 107	4.386	-4.451	2.708	1.00	0.00
ATOM 1653	3HG2	THR A 107	3.206	-5.275	1.687	1.00	0.00
ATOM 1654	N	HIS A 108	7.806	-7.769	3.690	1.00	0.00
ATOM 1655	CA	HIS A 108	8.698	-8.922	3.669	1.00	0.00
ATOM 1656	C	HIS A 108	9.280	-9.137	2.273	1.00	0.00
ATOM 1657	O	HIS A 108	9.125	-10.205	1.679	1.00	0.00
ATOM 1658	CB	HIS A 108	7.950	-10.176	4.133	1.00	0.00
ATOM 1659	CG	HIS A 108	8.688	-10.960	5.172	1.00	0.00
ATOM 1660	ND1	HIS A 108	10.058	-10.905	5.328	1.00	0.00
ATOM 1661	CD2	HIS A 108	8.239	-11.823	6.116	1.00	0.00
ATOM 1662	CE1	HIS A 108	10.419	-11.700	6.319	1.00	0.00
ATOM 1663	NE2	HIS A 108	9.335	-12.268	6.814	1.00	0.00
ATOM 1664	H	HIS A 108	7.991	-7.034	4.310	1.00	0.00
ATOM 1665	HA	HIS A 108	9.508	-8.724	4.354	1.00	0.00
ATOM 1666	1HB	HIS A 108	6.999	-9.884	4.552	1.00	0.00
ATOM 1667	2HB	HIS A 108	7.780	-10.823	3.286	1.00	0.00
ATOM 1668	HD1	HIS A 108	10.673	-10.364	4.790	1.00	0.00
ATOM 1669	HD2	HIS A 108	7.211	-12.109	6.286	1.00	0.00
ATOM 1670	HE1	HIS A 108	11.430	-11.857	6.667	1.00	0.00
ATOM 1671	HE2	HIS A 108	9.327	-12.969	7.499	1.00	0.00
ATOM 1672	N	ASN A 109	9.950	-8.113	1.755	1.00	0.00
ATOM 1673	CA	ASN A 109	10.557	-8.188	0.430	1.00	0.00
ATOM 1674	C	ASN A 109	9.497	-8.415	-0.643	1.00	0.00

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ATOM 1675	O	ASN A 109	9.705	-9.184	-1.582	1.00	0.00
ATOM 1676	CB	ASN A 109	11.598	-9.310	0.385	1.00	0.00
ATOM 1677	CG	ASN A 109	12.823	-8.930	-0.423	1.00	0.00
ATOM 1678	OD1	ASN A 109	13.953	-9.214	-0.027	1.00	0.00
ATOM 1679	ND2	ASN A 109	12.605	-8.282	-1.562	1.00	0.00
ATOM 1680	H	ASN A 109	10.041	-7.289	2.276	1.00	0.00
ATOM 1681	HA	ASN A 109	11.050	-7.246	0.239	1.00	0.00
ATOM 1682	1HB	ASN A 109	11.911	-9.543	1.391	1.00	0.00
ATOM 1683	2HB	ASN A 109	11.152	-10.187	-0.062	1.00	0.00
ATOM 1684	1HD2	ASN A 109	11.678	-8.088	-1.814	1.00	0.00
ATOM 1685	2HD2	ASN A 109	13.379	-8.024	-2.103	1.00	0.00
ATOM 1686	N	GLY A 110	8.361	-7.742	-0.498	1.00	0.00
ATOM 1687	CA	GLY A 110	7.287	-7.884	-1.463	1.00	0.00
ATOM 1688	C	GLY A 110	6.720	-9.290	-1.495	1.00	0.00
ATOM 1689	O	GLY A 110	7.010	-10.063	-2.408	1.00	0.00
ATOM 1690	H	GLY A 110	8.251	-7.142	0.270	1.00	0.00
ATOM 1691	1HA	GLY A 110	6.496	-7.194	-1.210	1.00	0.00
ATOM 1692	2HA	GLY A 110	7.665	-7.638	-2.444	1.00	0.00
ATOM 1693	N	THR A 111	5.910	-9.622	-0.496	1.00	0.00
ATOM 1694	CA	THR A 111	5.301	-10.945	-0.414	1.00	0.00
ATOM 1695	C	THR A 111	4.038	-10.914	0.440	1.00	0.00
ATOM 1696	O	THR A 111	3.010	-11.477	0.063	1.00	0.00
ATOM 1697	CB	THR A 111	6.296	-11.952	0.165	1.00	0.00
ATOM 1698	OG1	THR A 111	6.733	-11.543	1.449	1.00	0.00
ATOM 1699	CG2	THR A 111	7.525	-12.145	-0.697	1.00	0.00
ATOM 1700	H	THR A 111	5.716	-8.963	0.203	1.00	0.00
ATOM 1701	HA	THR A 111	5.037	-11.250	-1.415	1.00	0.00

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ATOM 1702	HB	THR A 111	5.807	-12.910	0.263	1.00	0.00
ATOM 1703	HG1	THR A 111	6.445	-12.184	2.104	1.00	0.00
ATOM 1704	1HG2	THR A 111	8.147	-11.264	-0.639	1.00	0.00
ATOM 1705	2HG2	THR A 111	7.224	-12.305	-1.722	1.00	0.00
ATOM 1706	3HG2	THR A 111	8.080	-13.002	-0.347	1.00	0.00
ATOM 1707	N	GLN A 112	4.122	-10.256	1.591	1.00	0.00
ATOM 1708	CA	GLN A 112	2.983	-10.156	2.496	1.00	0.00
ATOM 1709	C	GLN A 112	2.844	-8.745	3.055	1.00	0.00
ATOM 1710	O	GLN A 112	3.711	-8.267	3.787	1.00	0.00
ATOM 1711	CB	GLN A 112	3.127	-11.159	3.642	1.00	0.00
ATOM 1712	CG	GLN A 112	1.921	-11.205	4.566	1.00	0.00
ATOM 1713	CD	GLN A 112	2.200	-11.961	5.851	1.00	0.00
ATOM 1714	OE1	GLN A 112	1.658	-13.043	6.078	1.00	0.00
ATOM 1715	NE2	GLN A 112	3.047	-11.392	6.700	1.00	0.00
ATOM 1716	H	GLN A 112	4.968	-9.829	1.839	1.00	0.00
ATOM 1717	HA	GLN A 112	2.093	-10.395	1.933	1.00	0.00
ATOM 1718	1HB	GLN A 112	3.273	-12.145	3.226	1.00	0.00
ATOM 1719	2HB	GLN A 112	3.994	-10.894	4.229	1.00	0.00
ATOM 1720	1HG	GLN A 112	1.637	-10.194	4.816	1.00	0.00
ATOM 1721	2HG	GLN A 112	1.107	-11.690	4.049	1.00	0.00
ATOM 1722	1HE2	GLN A 112	3.441	-10.529	6.454	1.00	0.00
ATOM 1723	2HE2	GLN A 112	3.245	-11.860	7.539	1.00	0.00
ATOM 1724	N	LEU A 113	1.745	-8.083	2.708	1.00	0.00
ATOM 1725	CA	LEU A 113	1.486	-6.727	3.178	1.00	0.00
ATOM 1726	C	LEU A 113	0.806	-6.752	4.542	1.00	0.00
ATOM 1727	O	LEU A 113	-0.415	-6.875	4.637	1.00	0.00
ATOM 1728	CB	LEU A 113	0.615	-5.972	2.166	1.00	0.00

ATOM 1729	CG	LEU A 113	0.246	-4.533	2.549	1.00	0.00
ATOM 1730	CD1	LEU A 113	-0.990	-4.514	3.436	1.00	0.00
ATOM 1731	CD2	LEU A 113	1.410	-3.836	3.240	1.00	0.00
ATOM 1732	H	LEU A 113	1.088	-8.519	2.125	1.00	0.00
ATOM 1733	HA	LEU A 113	2.436	-6.222	3.271	1.00	0.00
ATOM 1734	1HB	LEU A 113	1.142	-5.946	1.224	1.00	0.00
ATOM 1735	2HB	LEU A 113	-0.300	-6.529	2.030	1.00	0.00
ATOM 1736	HG	LEU A 113	0.014	-3.981	1.649	1.00	0.00
ATOM 1737	1HD1	LEU A 113	-1.530	-5.443	3.321	1.00	0.00
ATOM 1738	2HD1	LEU A 113	-1.625	-3.690	3.150	1.00	0.00
ATOM 1739	3HD1	LEU A 113	-0.691	-4.397	4.467	1.00	0.00
ATOM 1740	1HD2	LEU A 113	2.227	-3.721	2.542	1.00	0.00
ATOM 1741	2HD2	LEU A 113	1.736	-4.428	4.082	1.00	0.00
ATOM 1742	3HD2	LEU A 113	1.093	-2.863	3.586	1.00	0.00
ATOM 1743	N	LEU A 114	1.608	-6.641	5.598	1.00	0.00
ATOM 1744	CA	LEU A 114	1.091	-6.655	6.963	1.00	0.00
ATOM 1745	C	LEU A 114	0.410	-7.985	7.276	1.00	0.00
ATOM 1746	O	LEU A 114	0.995	-8.854	7.922	1.00	0.00
ATOM 1747	CB	LEU A 114	0.111	-5.498	7.175	1.00	0.00
ATOM 1748	CG	LEU A 114	0.748	-4.108	7.206	1.00	0.00
ATOM 1749	CD1	LEU A 114	-0.323	-3.029	7.179	1.00	0.00
ATOM 1750	CD2	LEU A 114	1.634	-3.955	8.435	1.00	0.00
ATOM 1751	H	LEU A 114	2.573	-6.550	5.456	1.00	0.00
ATOM 1752	HA	LEU A 114	1.929	-6.530	7.632	1.00	0.00
ATOM 1753	1HB	LEU A 114	-0.619	-5.520	6.379	1.00	0.00
ATOM 1754	2HB	LEU A 114	-0.400	-5.655	8.114	1.00	0.00
ATOM 1755	HG	LEU A 114	1.367	-3.985	6.330	1.00	0.00

ATOM 1756	1HD1	LEU	A	114	-1.260	-3.443	7.520	1.00	0.00
ATOM 1757	2HD1	LEU	A	114	-0.437	-2.661	6.170	1.00	0.00
ATOM 1758	3HD1	LEU	A	114	-0.032	-2.216	7.827	1.00	0.00
ATOM 1759	1HD2	LEU	A	114	1.100	-3.404	9.196	1.00	0.00
ATOM 1760	2HD2	LEU	A	114	2.531	-3.419	8.166	1.00	0.00
ATOM 1761	3HD2	LEU	A	114	1.896	-4.931	8.815	1.00	0.00
ATOM 1762	N	ASN	A	115	-0.828	-8.138	6.815	1.00	0.00
ATOM 1763	CA	ASN	A	115	-1.584	-9.363	7.048	1.00	0.00
ATOM 1764	C	ASN	A	115	-2.260	-9.840	5.766	1.00	0.00
ATOM 1765	O	ASN	A	115	-3.416	-10.262	5.781	1.00	0.00
ATOM 1766	CB	ASN	A	115	-2.633	-9.139	8.139	1.00	0.00
ATOM 1767	CG	ASN	A	115	-2.019	-9.058	9.523	1.00	0.00
ATOM 1768	OD1	ASN	A	115	-0.826	-9.304	9.701	1.00	0.00
ATOM 1769	ND2	ASN	A	115	-2.834	-8.712	10.512	1.00	0.00
ATOM 1770	H	ASN	A	115	-1.242	-7.409	6.306	1.00	0.00
ATOM 1771	HA	ASN	A	115	-0.891	-10.121	7.379	1.00	0.00
ATOM 1772	1HB	ASN	A	115	-3.157	-8.214	7.943	1.00	0.00
ATOM 1773	2HB	ASN	A	115	-3.338	-9.957	8.124	1.00	0.00
ATOM 1774	1HD2	ASN	A	115	-3.774	-8.531	10.297	1.00	0.00
ATOM 1775	2HD2	ASN	A	115	-2.464	-8.652	11.417	1.00	0.00
ATOM 1776	N	PHE	A	116	-1.530	-9.773	4.657	1.00	0.00
ATOM 1777	CA	PHE	A	116	-2.060	-10.200	3.367	1.00	0.00
ATOM 1778	C	PHE	A	116	-0.934	-10.611	2.424	1.00	0.00
ATOM 1779	O	PHE	A	116	-0.086	-9.796	2.061	1.00	0.00
ATOM 1780	CB	PHE	A	116	-2.888	-9.079	2.736	1.00	0.00
ATOM 1781	CG	PHE	A	116	-4.290	-8.999	3.269	1.00	0.00
ATOM 1782	CD1	PHE	A	116	-4.584	-8.208	4.368	1.00	0.00



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ATOM 1783	CD2	PHE A 116	-5.314	-9.716	2.670	1.00	0.00
ATOM 1784	CE1	PHE A 116	-5.873	-8.134	4.861	1.00	0.00
ATOM 1785	CE2	PHE A 116	-6.605	-9.645	3.160	1.00	0.00
ATOM 1786	CZ	PHE A 116	-6.885	-8.853	4.255	1.00	0.00
ATOM 1787	H	PHE A 116	-0.614	-9.429	4.707	1.00	0.00
ATOM 1788	HA	PHE A 116	-2.698	-11.054	3.539	1.00	0.00
ATOM 1789	1HB	PHE A 116	-2.405	-8.133	2.928	1.00	0.00
ATOM 1790	2HB	PHE A 116	-2.945	-9.240	1.669	1.00	0.00
ATOM 1791	HD1	PHE A 116	-3.794	-7.645	4.842	1.00	0.00
ATOM 1792	HD2	PHE A 116	-5.096	-10.336	1.813	1.00	0.00
ATOM 1793	HE1	PHE A 116	-6.088	-7.515	5.719	1.00	0.00
ATOM 1794	HE2	PHE A 116	-7.394	-10.209	2.684	1.00	0.00
ATOM 1795	HZ	PHE A 116	-7.893	-8.797	4.639	1.00	0.00
ATOM 1796	N	THR A 117	-0.932	-11.880	2.030	1.00	0.00
ATOM 1797	CA	THR A 117	0.090	-12.399	1.129	1.00	0.00
ATOM 1798	C	THR A 117	-0.241	-12.067	-0.321	1.00	0.00
ATOM 1799	O	THR A 117	-1.224	-12.563	-0.873	1.00	0.00
ATOM 1800	CB	THR A 117	0.227	-13.912	1.298	1.00	0.00
ATOM 1801	OG1	THR A 117	-0.879	-14.585	0.721	1.00	0.00
ATOM 1802	CG2	THR A 117	0.324	-14.346	2.745	1.00	0.00
ATOM 1803	H	THR A 117	-1.635	-12.482	2.354	1.00	0.00
ATOM 1804	HA	THR A 117	1.027	-11.932	1.388	1.00	0.00
ATOM 1805	HB	THR A 117	1.125	-14.241	0.794	1.00	0.00
ATOM 1806	HG1	THR A 117	-0.769	-15.532	0.827	1.00	0.00
ATOM 1807	1HG2	THR A 117	1.290	-14.067	3.140	1.00	0.00
ATOM 1808	2HG2	THR A 117	0.206	-15.418	2.809	1.00	0.00
ATOM 1809	3HG2	THR A 117	-0.453	-13.863	3.319	1.00	0.00

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ATOM 1810	N	LEU A 118	0.585	-11.225	-0.935	1.00	0.00
ATOM 1811	CA	LEU A 118	0.376	-10.830	-2.323	1.00	0.00
ATOM 1812	C	LEU A 118	1.642	-11.041	-3.148	1.00	0.00
ATOM 1813	O	LEU A 118	2.742	-11.139	-2.603	1.00	0.00
ATOM 1814	CB	LEU A 118	-0.064	-9.367	-2.404	1.00	0.00
ATOM 1815	CG	LEU A 118	0.843	-8.372	-1.679	1.00	0.00
ATOM 1816	CD1	LEU A 118	1.926	-7.858	-2.614	1.00	0.00
ATOM 1817	CD2	LEU A 118	0.026	-7.216	-1.123	1.00	0.00
ATOM 1818	H	LEU A 118	1.351	-10.864	-0.444	1.00	0.00
ATOM 1819	HA	LEU A 118	-0.405	-11.452	-2.728	1.00	0.00
ATOM 1820	1HB	LEU A 118	-0.112	-9.085	-3.446	1.00	0.00
ATOM 1821	2HB	LEU A 118	-1.055	-9.288	-1.982	1.00	0.00
ATOM 1822	HG	LEU A 118	1.325	-8.870	-0.852	1.00	0.00
ATOM 1823	1HD1	LEU A 118	2.785	-8.511	-2.562	1.00	0.00
ATOM 1824	2HD1	LEU A 118	2.213	-6.860	-2.317	1.00	0.00
ATOM 1825	3HD1	LEU A 118	1.548	-7.838	-3.625	1.00	0.00
ATOM 1826	1HD2	LEU A 118	0.596	-6.302	-1.197	1.00	0.00
ATOM 1827	2HD2	LEU A 118	-0.212	-7.408	-0.087	1.00	0.00
ATOM 1828	3HD2	LEU A 118	-0.889	-7.117	-1.690	1.00	0.00
ATOM 1829	N	ASP A 119	1.475	-11.115	-4.464	1.00	0.00
ATOM 1830	CA	ASP A 119	2.600	-11.320	-5.369	1.00	0.00
ATOM 1831	C	ASP A 119	3.556	-10.133	-5.331	1.00	0.00
ATOM 1832	O	ASP A 119	3.277	-9.117	-4.694	1.00	0.00
ATOM 1833	CB	ASP A 119	2.097	-11.538	-6.797	1.00	0.00
ATOM 1834	CG	ASP A 119	2.999	-12.462	-7.593	1.00	0.00
ATOM 1835	OD1	ASP A 119	3.586	-12.000	-8.595	1.00	0.00
ATOM 1836	OD2	ASP A 119	3.120	-13.646	-7.215	1.00	0.00

ATOM	1837	H	ASP	A	119	0.572	-11.032	-4.836	1.00	0.00
ATOM	1838	HA	ASP	A	119	3.129	-12.203	-5.045	1.00	0.00
ATOM	1839	1HB	ASP	A	119	1.109	-11.973	-6.763	1.00	0.00
ATOM	1840	2HB	ASP	A	119	2.049	-10.586	-7.305	1.00	0.00
ATOM	1841	N	ARG	A	120	4.685	-10.269	-6.018	1.00	0.00
ATOM	1842	CA	ARG	A	120	5.687	-9.211	-6.065	1.00	0.00
ATOM	1843	C	ARG	A	120	5.784	-8.613	-7.464	1.00	0.00
ATOM	1844	O	ARG	A	120	5.743	-7.394	-7.633	1.00	0.00
ATOM	1845	CB	ARG	A	120	7.051	-9.755	-5.635	1.00	0.00
ATOM	1846	CG	ARG	A	120	8.150	-8.706	-5.629	1.00	0.00
ATOM	1847	CD	ARG	A	120	9.526	-9.342	-5.512	1.00	0.00
ATOM	1848	NE	ARG	A	120	9.846	-10.170	-6.672	1.00	0.00
ATOM	1849	CZ	ARG	A	120	11.077	-10.573	-6.978	1.00	0.00
ATOM	1850	NH1	ARG	A	120	12.105	-10.230	-6.212	1.00	0.00
ATOM	1851	NH2	ARG	A	120	11.281	-11.323	-8.052	1.00	0.00
ATOM	1852	H	ARG	A	120	4.850	-11.104	-6.505	1.00	0.00
ATOM	1853	HA	ARG	A	120	5.385	-8.438	-5.375	1.00	0.00
ATOM	1854	1HB	ARG	A	120	6.966	-10.161	-4.638	1.00	0.00
ATOM	1855	2HB	ARG	A	120	7.340	-10.545	-6.312	1.00	0.00
ATOM	1856	1HG	ARG	A	120	8.103	-8.143	-6.550	1.00	0.00
ATOM	1857	2HG	ARG	A	120	7.998	-8.042	-4.791	1.00	0.00
ATOM	1858	1HD	ARG	A	120	10.265	-8.559	-5.427	1.00	0.00
ATOM	1859	2HD	ARG	A	120	9.550	-9.957	-4.625	1.00	0.00
ATOM	1860	HE	ARG	A	120	9.105	-10.439	-7.256	1.00	0.00
ATOM	1861	1HH1	ARG	A	120	11.957	-9.664	-5.400	1.00	0.00
ATOM	1862	2HH1	ARG	A	120	13.027	-10.536	-6.447	1.00	0.00
ATOM	1863	1HH2	ARG	A	120	10.510	-11.585	-8.633	1.00	0.00

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ATOM	1864	2HH2	ARG	A	120	12.205	-11.627	-8.283	1.00	0.00
ATOM	1865	N	LYS	A	121	5.913	-9.478	-8.465	1.00	0.00
ATOM	1866	CA	LYS	A	121	6.016	-9.034	-9.851	1.00	0.00
ATOM	1867	C	LYS	A	121	4.782	-8.238	-10.261	1.00	0.00
ATOM	1868	O	LYS	A	121	4.882	-7.251	-10.990	1.00	0.00
ATOM	1869	CB	LYS	A	121	6.194	-10.236	-10.780	1.00	0.00
ATOM	1870	CG	LYS	A	121	7.377	-11.118	-10.413	1.00	0.00
ATOM	1871	CD	LYS	A	121	8.588	-10.815	-11.282	1.00	0.00
ATOM	1872	CE	LYS	A	121	8.722	-11.812	-12.422	1.00	0.00
ATOM	1873	NZ	LYS	A	121	8.472	-11.180	-13.746	1.00	0.00
ATOM	1874	H	LYS	A	121	5.940	-10.437	-8.267	1.00	0.00
ATOM	1875	HA	LYS	A	121	6.884	-8.397	-9.931	1.00	0.00
ATOM	1876	1HB	LYS	A	121	5.299	-10.840	-10.745	1.00	0.00
ATOM	1877	2HB	LYS	A	121	6.338	-9.878	-11.789	1.00	0.00
ATOM	1878	1HG	LYS	A	121	7.636	-10.944	-9.380	1.00	0.00
ATOM	1879	2HG	LYS	A	121	7.097	-12.152	-10.548	1.00	0.00
ATOM	1880	1HD	LYS	A	121	8.483	-9.823	-11.696	1.00	0.00
ATOM	1881	2HD	LYS	A	121	9.477	-10.859	-10.671	1.00	0.00
ATOM	1882	1HE	LYS	A	121	9.723	-12.219	-12.411	1.00	0.00
ATOM	1883	2HE	LYS	A	121	8.009	-12.610	-12.272	1.00	0.00
ATOM	1884	1HZ	LYS	A	121	9.341	-10.732	-14.098	1.00	0.00
ATOM	1885	2HZ	LYS	A	121	7.731	-10.455	-13.662	1.00	0.00
ATOM	1886	3HZ	LYS	A	121	8.162	-11.898	-14.432	1.00	0.00
ATOM	1887	N	SER	A	122	3.618	-8.671	-9.787	1.00	0.00
ATOM	1888	CA	SER	A	122	2.365	-7.998	-10.104	1.00	0.00
ATOM	1889	C	SER	A	122	2.393	-6.547	-9.633	1.00	0.00
ATOM	1890	O	SER	A	122	1.760	-5.677	-10.232	1.00	0.00

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ATOM 1891	CB	SER A 122	1.188	-8.731	-9.457	1.00	0.00
ATOM 1892	OG	SER A 122	-0.048	-8.269	-9.974	1.00	0.00
ATOM 1893	H	SER A 122	3.603	-9.463	-9.209	1.00	0.00
ATOM 1894	HA	SER A 122	2.242	-8.013	-11.176	1.00	0.00
ATOM 1895	1HB	SER A 122	1.274	-9.790	-9.657	1.00	0.00
ATOM 1896	2HB	SER A 122	1.205	-8.564	-8.390	1.00	0.00
ATOM 1897	HG	SER A 122	-0.128	-7.325	-9.817	1.00	0.00
ATOM 1898	N	VAL A 123	3.132	-6.294	-8.557	1.00	0.00
ATOM 1899	CA	VAL A 123	3.244	-4.949	-8.006	1.00	0.00
ATOM 1900	C	VAL A 123	3.905	-4.002	-9.001	1.00	0.00
ATOM 1901	O	VAL A 123	4.864	-4.368	-9.679	1.00	0.00
ATOM 1902	CB	VAL A 123	4.055	-4.944	-6.697	1.00	0.00
ATOM 1903	CG1	VAL A 123	3.977	-3.582	-6.024	1.00	0.00
ATOM 1904	CG2	VAL A 123	3.565	-6.040	-5.761	1.00	0.00
ATOM 1905	H	VAL A 123	3.613	-7.030	-8.124	1.00	0.00
ATOM 1906	HA	VAL A 123	2.248	-4.593	-7.789	1.00	0.00
ATOM 1907	HB	VAL A 123	5.089	-5.143	-6.937	1.00	0.00
ATOM 1908	1HG1	VAL A 123	4.938	-3.337	-5.597	1.00	0.00
ATOM 1909	2HG1	VAL A 123	3.231	-3.609	-5.244	1.00	0.00
ATOM 1910	3HG1	VAL A 123	3.707	-2.835	-6.756	1.00	0.00
ATOM 1911	1HG2	VAL A 123	2.563	-6.331	-6.040	1.00	0.00
ATOM 1912	2HG2	VAL A 123	3.563	-5.672	-4.745	1.00	0.00
ATOM 1913	3HG2	VAL A 123	4.221	-6.894	-5.832	1.00	0.00
ATOM 1914	N	PHE A 124	3.384	-2.781	-9.081	1.00	0.00
ATOM 1915	CA	PHE A 124	3.924	-1.779	-9.991	1.00	0.00
ATOM 1916	C	PHE A 124	3.399	-0.390	-9.643	1.00	0.00
ATOM 1917	O	PHE A 124	2.190	-0.179	-9.548	1.00	0.00

ATOM	1918	CB	PHE A 124	3.564	-2.124	-11.438	1.00	0.00
ATOM	1919	CG	PHE A 124	4.383	-1.381	-12.455	1.00	0.00
ATOM	1920	CD1	PHE A 124	4.272	-0.006	-12.583	1.00	0.00
ATOM	1921	CD2	PHE A 124	5.265	-2.059	-13.283	1.00	0.00
ATOM	1922	CE1	PHE A 124	5.024	0.680	-13.519	1.00	0.00
ATOM	1923	CE2	PHE A 124	6.019	-1.378	-14.220	1.00	0.00
ATOM	1924	CZ	PHE A 124	5.898	-0.007	-14.338	1.00	0.00
ATOM	1925	H	PHE A 124	2.620	-2.549	-8.514	1.00	0.00
ATOM	1926	HA	PHE A 124	4.999	-1.781	-9.887	1.00	0.00
ATOM	1927	1HB	PHE A 124	3.716	-3.181	-11.597	1.00	0.00
ATOM	1928	2HB	PHE A 124	2.524	-1.887	-11.609	1.00	0.00
ATOM	1929	HD1	PHE A 124	3.589	0.533	-11.944	1.00	0.00
ATOM	1930	HD2	PHE A 124	5.360	-3.130	-13.191	1.00	0.00
ATOM	1931	HE1	PHE A 124	4.928	1.752	-13.609	1.00	0.00
ATOM	1932	HE2	PHE A 124	6.703	-1.918	-14.858	1.00	0.00
ATOM	1933	HZ	PHE A 124	6.488	0.527	-15.069	1.00	0.00
ATOM	1934	N	VAL A 125	4.316	0.552	-9.452	1.00	0.00
ATOM	1935	CA	VAL A 125	3.945	1.920	-9.113	1.00	0.00
ATOM	1936	C	VAL A 125	4.586	2.918	-10.072	1.00	0.00
ATOM	1937	O	VAL A 125	5.811	3.020	-10.149	1.00	0.00
ATOM	1938	CB	VAL A 125	4.351	2.273	-7.668	1.00	0.00
ATOM	1939	CG1	VAL A 125	5.860	2.186	-7.497	1.00	0.00
ATOM	1940	CG2	VAL A 125	3.842	3.657	-7.292	1.00	0.00
ATOM	1941	H	VAL A 125	5.264	0.323	-9.541	1.00	0.00
ATOM	1942	HA	VAL A 125	2.871	2.002	-9.193	1.00	0.00
ATOM	1943	HB	VAL A 125	3.894	1.553	-7.004	1.00	0.00
ATOM	1944	1HG1	VAL A 125	6.313	3.111	-7.822	1.00	0.00

ATOM	1945	2HG1	VAL	A	125	6.243	1.369	-8.089	1.00	0.00
ATOM	1946	3HG1	VAL	A	125	6.093	2.017	-6.456	1.00	0.00
ATOM	1947	1HG2	VAL	A	125	4.556	4.402	-7.611	1.00	0.00
ATOM	1948	2HG2	VAL	A	125	3.717	3.715	-6.221	1.00	0.00
ATOM	1949	3HG2	VAL	A	125	2.893	3.836	-7.776	1.00	0.00
ATOM	1950	N	ASP	A	126	3.752	3.651	-10.802	1.00	0.00
ATOM	1951	CA	ASP	A	126	4.238	4.640	-11.755	1.00	0.00
ATOM	1952	C	ASP	A	126	3.579	5.995	-11.515	1.00	0.00
ATOM	1953	O	ASP	A	126	2.576	6.092	-10.808	1.00	0.00
ATOM	1954	CB	ASP	A	126	3.971	4.173	-13.189	1.00	0.00
ATOM	1955	CG	ASP	A	126	5.222	4.196	-14.045	1.00	0.00
ATOM	1956	OD1	ASP	A	126	5.245	3.500	-15.082	1.00	0.00
ATOM	1957	OD2	ASP	A	126	6.179	4.912	-13.680	1.00	0.00
ATOM	1958	H	ASP	A	126	2.786	3.523	-10.695	1.00	0.00
ATOM	1959	HA	ASP	A	126	5.303	4.742	-11.613	1.00	0.00
ATOM	1960	1HB	ASP	A	126	3.592	3.163	-13.167	1.00	0.00
ATOM	1961	2HB	ASP	A	126	3.235	4.820	-13.643	1.00	0.00
ATOM	1962	N	SER	A	127	4.148	7.038	-12.109	1.00	0.00
ATOM	1963	CA	SER	A	127	3.616	8.388	-11.959	1.00	0.00
ATOM	1964	C	SER	A	127	2.351	8.569	-12.792	1.00	0.00
ATOM	1965	O	SER	A	127	2.402	8.583	-14.021	1.00	0.00
ATOM	1966	CB	SER	A	127	4.665	9.422	-12.373	1.00	0.00
ATOM	1967	OG	SER	A	127	5.975	8.959	-12.092	1.00	0.00
ATOM	1968	H	SER	A	127	4.946	6.897	-12.660	1.00	0.00
ATOM	1969	HA	SER	A	127	3.371	8.533	-10.918	1.00	0.00
ATOM	1970	1HB	SER	A	127	4.584	9.610	-13.432	1.00	0.00
ATOM	1971	2HB	SER	A	127	4.496	10.340	-11.829	1.00	0.00

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ATOM 1972	HG	SER A 127	6.576	9.707	-12.047	1.00	0.00
ATOM 1973	N	GLY A 128	1.217	8.706	-12.113	1.00	0.00
ATOM 1974	CA	GLY A 128	-0.046	8.884	-12.806	1.00	0.00
ATOM 1975	C	GLY A 128	-0.053	10.116	-13.696	1.00	0.00
ATOM 1976	O	GLY A 128	0.513	10.094	-14.788	1.00	0.00
ATOM 1977	H	GLY A 128	1.237	8.687	-11.134	1.00	0.00
ATOM 1978	1HA	GLY A 128	-0.234	8.013	-13.416	1.00	0.00
ATOM 1979	2HA	GLY A 128	-0.835	8.975	-12.076	1.00	0.00
ATOM 1980	N	PRO A 129	-0.691	11.213	-13.253	1.00	0.00
ATOM 1981	CA	PRO A 129	-0.758	12.455	-14.031	1.00	0.00
ATOM 1982	C	PRO A 129	0.582	13.183	-14.090	1.00	0.00
ATOM 1983	O	PRO A 129	0.735	14.157	-14.827	1.00	0.00
ATOM 1984	CB	PRO A 129	-1.786	13.294	-13.268	1.00	0.00
ATOM 1985	CG	PRO A 129	-1.710	12.798	-11.866	1.00	0.00
ATOM 1986	CD	PRO A 129	-1.394	11.331	-11.962	1.00	0.00
ATOM 1987	HA	PRO A 129	-1.112	12.273	-15.035	1.00	0.00
ATOM 1988	1HB	PRO A 129	-1.522	14.339	-13.335	1.00	0.00
ATOM 1989	2HB	PRO A 129	-2.767	13.136	-13.689	1.00	0.00
ATOM 1990	1HG	PRO A 129	-0.926	13.317	-11.335	1.00	0.00
ATOM 1991	2HG	PRO A 129	-2.659	12.945	-11.373	1.00	0.00
ATOM 1992	1HD	PRO A 129	-0.754	11.029	-11.146	1.00	0.00
ATOM 1993	2HD	PRO A 129	-2.303	10.749	-11.963	1.00	0.00
ATOM 1994	N	SER A 130	1.551	12.708	-13.310	1.00	0.00
ATOM 1995	CA	SER A 130	2.876	13.320	-13.278	1.00	0.00
ATOM 1996	C	SER A 130	2.814	14.722	-12.680	1.00	0.00
ATOM 1997	O	SER A 130	1.768	15.373	-12.707	1.00	0.00
ATOM 1998	CB	SER A 130	3.473	13.380	-14.686	1.00	0.00



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ATOM 1999	OG	SER A 130	4.865	13.113	-14.662	1.00	0.00
ATOM 2000	H	SER A 130	1.373	11.931	-12.743	1.00	0.00
ATOM 2001	HA	SER A 130	3.509	12.705	-12.655	1.00	0.00
ATOM 2002	1HB	SER A 130	2.990	12.645	-15.311	1.00	0.00
ATOM 2003	2HB	SER A 130	3.314	14.364	-15.101	1.00	0.00
ATOM 2004	HG	SER A 130	5.145	12.796	-15.524	1.00	0.00
ATOM 2005	N	SER A 131	3.938	15.180	-12.140	1.00	0.00
ATOM 2006	CA	SER A 131	4.010	16.505	-11.534	1.00	0.00
ATOM 2007	C	SER A 131	3.928	17.595	-12.599	1.00	0.00
ATOM 2008	O	SER A 131	4.930	18.231	-12.928	1.00	0.00
ATOM 2009	CB	SER A 131	5.304	16.651	-10.732	1.00	0.00
ATOM 2010	OG	SER A 131	5.220	17.734	-9.821	1.00	0.00
ATOM 2011	H	SER A 131	4.737	14.614	-12.148	1.00	0.00
ATOM 2012	HA	SER A 131	3.168	16.609	-10.866	1.00	0.00
ATOM 2013	1HB	SER A 131	5.485	15.744	-10.175	1.00	0.00
ATOM 2014	2HB	SER A 131	6.126	16.829	-11.409	1.00	0.00
ATOM 2015	HG	SER A 131	4.554	17.543	-9.156	1.00	0.00
ATOM 2016	N	GLY A 132	2.730	17.806	-13.133	1.00	0.00
ATOM 2017	CA	GLY A 132	2.539	18.819	-14.154	1.00	0.00
ATOM 2018	C	GLY A 132	2.034	18.239	-15.460	1.00	0.00
ATOM 2019	H	GLY A 132	1.968	17.269	-12.830	1.00	0.00
ATOM 2020	1HA	GLY A 132	1.826	19.546	-13.795	1.00	0.00
ATOM 2021	2HA	GLY A 132	3.482	19.316	-14.333	1.00	0.00
TER 2022		GLY A 132					

ENDMDL

MASTER	549	0	0	3	8	0	0	640420	20	0
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END

#### V. in silico screening

##### <Database optimization>

Low molecular weight compound catalog database was used, which was provided by SPECS Inc. as a database intended for low molecular weight compound database.

When one entry contains a plurality of molecules, it was divided into one by one molecule. Then, a library without overlaps was used as the population for screening. This database contains 152323 molecules.

Next, based on "Lipinski's Rule of 5," target independent optimization was conducted regarding the above low molecular weight compound database. Herein, the following conditions for refining were used.

1. Molecular weight was not less than 100 and not greater than 500
2. Calculated LogP value (o/w) was 5 or less (XLOGP-1 algorithm was used)
3. The number of hydrogen binding acceptor atoms (the number of N and O contained in a low molecular compound) was 10 or less.
4. The number of hydrogen binding donor atoms (the number NH and OH contained in a low molecular compound) was 5 or less.

Further, the following molecules were eliminated for properly conducting docking calculation.

1. The number of rotatable single bonds is 21 or more.
2. A molecule containing a radical.
3. A molecule containing elements other than H, C, N, O, F, S, P, Cl, Br, and

I.

After refining, the molecule number was 103773.

#### <Prediction of Binding Site>

In the region of  $\beta$ -sheet of the SEA-like domain of the present invention surrounded by Leu67, Arg70, Val72, Phe124 and Asp126, a large hydrophilic pocket is formed. Since high priority is given to this region by ASF of each of binding site prediction programs, PASS, SPHGEN, and MOE, it is predicted that this region may be a binding site.

#### <Screening>

##### (1) Primary screening

Using Dock 4.0, docking was conducted, regarding binding site, on the entire low molecular weight compound library, which had been optimized in advance. At this time, based on the energy score of Dock, low molecular weight compounds were ranked.

##### (2) Secondary screening

Regarding highly ranked 9753 molecules obtained as a result of the primary screening and 179 molecules of their similar compounds contained in the database, detailed docking was conducted using AutoDock 3.0.5.

Then, refining was performed to compounds within 4 Å from the sphere used in docking, and molecules for which calculation was abnormally terminated were eliminated.

As a result, docking structures of 9877 molecules were finally obtained.

Further, among the selected compounds, further selection was conducted using  $\Delta G$  (binding free energy change)=-8.55 and  $K_d$ =about 1  $\mu$ M or less as standards. Then, 1,000 compounds having higher binding ability than the standards were regarded as ligand candidates.

#### VI. Search for important residue in pharmacophore definition

From three dimensional coordinate 1 of a target SEA-like domain, a spherical probe called sphere was produced on the target surface by Dock-attached program

SPHGEN. Residues having a center distance from this sphere within 4.5 Å were selected, and thereby important amino acid residues ASN15, ASN17, PHE18, THR19, LEU67, ARG70, SER71, VAL72, SER73, ASN74, HIS78, GLY80, ASP82, ASP119, SER122, ASP126, SER127 in pharmacophore definition were obtained.

## VII. Cell proliferation activation test

### <Cell culture>

#### i) HeLa cell

HeLa cells were cultured in Dulbecco's modified essential medium (DMED) manufactured by Sigma containing 10% fetal bovine serum (FBS) for cell culture manufactured by ICN, 2 mM L-glutamine manufactured by Sigma, 100 U/ml penicillin, and 100 µg/ml streptomycin manufactured by Sigma, in the humid ambience containing 5% carbon dioxide at 37°C.

#### ii) 293 cell

293 cells were cultured in Dulbecco's modified essential medium (DMED) manufactured by Sigma containing 10% fetal bovine serum (FBS) for cell culture manufactured by ICN, 2 mM L-glutamine manufactured by Sigma, 0.1 mM non-essential amino acids manufactured by Sigma, 1 mM sodium pyruvate manufactured by Sigma, 100 U/ml penicillin, and 100 µg/ml streptomycin manufactured by Sigma, in the humid ambience containing 5% carbon dioxide at 37°C.

#### iii) CHO cell

CHO-K1 cells were cultured in Dulbecco's modified essential medium (DMED) manufactured by Sigma containing 10% fetal bovine serum (FBS) for cell culture manufactured by ICN, 2 mM L-glutamine manufactured by Sigma, 0.1 mM non-essential amino acids manufactured by Sigma, 1 mM sodium pyruvate manufactured by Sigma, 100 U/ml penicillin, and 100 µg/ml streptomycin

manufactured by Sigma, in the humid ambience containing 5% carbon dioxide at 37°C

<Introduction of gene of protein of the invention into cultured cell>

First, cDNA (SEQ ID NO: 3) encoding 1110008114 protein (133-251) represented by SEQ ID NO: 1 was amplified by PCR. The resultant DNA fragment was subcloned into a BamHI/NotI multicloning site of an introduction vector (Gateway system) manufactured by Invitrogen. A target gene was transferred into an eukaryotic cell expression vector pDEST26 (manufactured by Invitrogen) by an LR reaction. Subsequently, the aforementioned three types of cells each were subjected to secondary culture by seeding the cells in a 60 mm plate at a density of  $10^5/35$  mm dish and incubating them for 24 hours. Subsequently, the cells were transfected with pDEST 26 as instructed in the specification by use of LipoFectamine 2000 (manufactured by Invitrogen).

<Measurement of cell proliferation>

The following comparative experiments were performed in order to check effects of an SEA-like domain on cell proliferation between 293 cells, HeLa cells and CHO cells with a target gene introduced therein and those with an expression vector pDEST 26 having no target gene cloned therein introduced.

First, living-cell measuring reagent SF (manufactured Nakarai Tesk) was added in a concentration of 10% of the medium, 48 hours after introduction of the gene. Then, a coloring reaction was performed for 30 minutes in the humid ambience containing 5% carbon dioxide at 37°C and an optical density was measured at 450 nm (reference wavelength: 600 nm). Measurement was performed three times for each. Average value and standard deviation were obtained from the results and expressed by relative values based on the control sample being as 100%.

The results are shown in Figure 6. As is apparent from Figure 6, in the cases of 293 cells and HeLa cells, when the case where cDNA encoding 1110008I14 protein (133-251) of the invention is introduced therein is compared to the case where no cDNA is introduced (only expression vector pDEST26 is introduced, indicated by "control" in Figure 6), the number of living cells significantly decreases. In contrast, in the case of CHO cells, no significant difference is observed between the cells having cDNA introduced and the cells having no cDNA introduced therein.

This is conceivably because CA125 (full-length protein having MUC 16 and SEA-like domain) known as an ovarian cancer diagnosis marker) is expressed in the HeLa cell and 293 cell derived from cancer cells, whereas endogenous CA125 is not present within the CHO cell derived from normal cell (see Journal of Cell Science, Vol. 116, pages 1305-1318, 2003).

To explain more specifically, when 1110008I14 protein (133-251) is expressed in the HeLa cell and 293 cell, the 1110008I14 protein (133-251) and endogenous CA125 are present in competition with each other in an attempt to bind to a ligand responsible for cellular proliferation activity control. Since the protein of the invention has a higher binding activity to the ligand, it interacts with the ligand prior to CA 125, thereby inhibiting the binding between the full-length CA125 and the ligand. As a result, a signal activity is suppressed in cellular proliferation in the full-length protein and thus the number of cells presumably decreased.

In contrast, the CHO cell does not have endogenous CA125. Therefore, even if 1110008I14 protein (133-251) is expressed, since there is no antagonist, cellular proliferation is not particularly affected.

From this, cellular proliferation is conceivably inhibited by expressing the SEA-like domain protein of the present invention in the presence of full-length CA125 in a cultured animal cell.

#### VIII. Test for binding activity between a candidate ligand compound and CA 125 by cellular proliferation measurement

Using 293 cells having an endogenous CA125 and CHO cells having endogenous CA 125 unexpressed as cultured animal cells, SEA-like domain contained in CA125 was tested for binding inhibition.

##### <Cell culture>

293 cells and CHO cells were separately cultured in the same manner as mentioned above.

##### <Measurement of cellular proliferation>

A plurality of candidate ligand compounds were selected from the candidate ligand compound obtained in the in silico screening in consideration of binding free energy change ( $\Delta G$ ) due to Auto Dock and solubility. The selected candidate ligand compounds were dissolved in DMSO-d<sub>6</sub> at a concentration of 1 to 100  $\mu$ M so that the final DMSO concentration was 0.1%, and the mixture was added to cultured cells.

After addition of the candidate ligand compounds, living cell measurement reagent SF (manufactured by Nakarai Tesk) was added in a concentration of 10% of the medium. A coloring reaction was performed for 30 minutes in the humid ambient containing 5% carbon dioxide at 37°C and an optical density at 460 nm (reference wavelength: 600 nm) was measured. Measurement was performed three times for each. Average value and standard deviation were obtained from the results and expressed by relative values, provided that the measurement results when the compound was not added was defined as 100%.

As a result, the compounds exhibiting cellular proliferation inhibitory activity due to antagonistic activity of endogenous CA125 are listed in Table 7 below. The results of cellular proliferation test with respect to individual compounds are shown in Table 8.

Table 7. Compound exhibiting cellular proliferation inhibitory activity

Compound No.	Sample ID	Name of compound
1	AK-968/14001130	N-(1,3,5-trimethyl-1H-pyrazol-4-ylmethyl)-7-trifluoromethyl-5,6-dihydro-7a,8,11-triazacyclopenta[b]phenanthrene-9-carboxamide
2	AE-641/30154034	1-[3-[4-(10,11-dihydro-dibenzo[b,f]thiepin-10-yl)piperazin-1-yl]propyl]-1,3-dihydrobenzimidazol-2-one
3	AK-918/12787007	2-(3,4-dimethylphenyl)-2-oxoethyl-2-(3,5-dioxo-4-aza-dibenzo[8,9,10,11]tricyclo[5,2,2,0 <sup>2,6</sup> ]undecan-4-yl)acetate
4	AG-690/40751648	2-[4-ethyl-5-(4-methylphenylamino)methyl-4H-[1,2,4]triazol-3-yl]sulfanyl-1-(phenothiazin-10-yl)-1-ethanone
5	AE-641/30150009	1-(8-chloro-3-fluoro-10,11-dihydro-dibenzo[b,f]thiepin-10-yl)-4-[2-(1,3-dioxolan-2-yl)ethyl] piperazine

Table 8. Results of cellular proliferation test with respect to the compounds (shown in Table 7)

Compound No.	Concentration [microM]	Ratio of living cells (%)	
		CHO cell	293 cell
1	10	101.8	79.7
2	10	110.7	52.9
3	10	122.7	63.4
4	10	94.0	66.5
5	10	119.2	52.5

As is shown in Table 7, compounds antagonizing with full length CA125 protein mostly have a 6-membered ring/7-membered ring/6-membered ring structure.

Furthermore, as is apparent from the results of Table 8, any one of the compounds exhibits a cellular proliferation inhibitory effect in optimal concentration conditions in 293 cells having endogenous CA 125, whereas it does not exhibit significant effect on cellular proliferation in CHO cells having no endogenous CA 125.



From this, it is considered that the compound which may conceivably act on the binding pocket of the protein of the present invention (i.e., SEA-like domain) may bind to an antagonistic site of the SEA-like domain of CA 125 protein, thereby inhibiting a cellular proliferation activity of CA 125.

#### Industrial Application

As is described in the foregoing, on the assumption that cellular proliferation is accelerated by expressing full-length CA 125 protein (MUC 16) within a cell, a phenomenon caused by co-presence of SEA-like domain of the present invention and CA125 can be clearly explained. More specifically, when both are present competitively to a ligand, a SEA-like domain having a higher signal activity binds to the ligand. As a result, the action of the full-length protein is conceivably inhibited, thereby suppressing cellular proliferation.

The compounds shown in Table 7, which are selected by in silicon screening based on three-dimensional structural information of the SEA-like domain, are found to have cellular proliferation inhibitory activity.

Therefore, according to the present invention, it is possible to provide a protein effective as a reagent in elucidating a mechanism of CA125 (MUC 16) protein known as an ovarian cancer diagnostic marker in canceration, and provide an inhibitor of CA125 protein.

Furthermore, in the case of MUC1 protein, it has been known that a cancer can be treated by a method of using an antibody. Therefore, the protein of the present invention is expected to serve as a novel cancer treatment agent capable of preventing metastasis and malignant alteration of cancer by administering it to human body.

Moreover, since a compound according to the present invention is confirmed to play a role as a binding inhibitor to an ovarian cancer marker, CA 125 (MUC16),

in animal cells, the compound of the present invention is extremely important in developing an anticancer agent for ovarian cancer.

As described above, since the protein domain of the present invention has physiologically significant structure and protein molecular function, this protein domain can be used for screening a physiologically active substance interacting with the protein. In addition, three-dimensional structure analysis of the protein domain of the present invention allows a compound affecting the domain to be searched for and designed on a computer.

According to these results, it is possible to conduct screening of a compound having interaction with the domain protein and/or a natural protein containing the domain protein.

Hence, the provision of the protein domain according to the present invention enables effective genome drug discovery on the basis of protein structure-function analysis.